HDR-PJ260/PJ260E/PJ260V/PJ260VE/ XR260E/XR260V/XR260VE

SERVICE MANUAL

LEVEL 2

Ver. 1.3 2012.06

Revised-3

Replace the previously issued SERVICE MANUAL 9-834-636-33 with this Manual.

Photo: HDR-PJ260V

US Model
Canadian Model
AEP Model
UK Model
North European Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Brazilian Model
Tourist Model

SERVICE NOTE (Check the following note before the service.)

1-1. POWER SUPPLY DURING REPAIRS
1-2. PRECAUTION ON REPLACING THE VC-653 BOARD
1-3. ADDITION OF DESTINATION DATA FILE
1-4. PRECAUTION ON REPLACING THE MS-478 BOARD
1-5. PRECAUTION ON REPLACING THE LENS
1-6. SELF-DIAGNOSIS FUNCTION
1-7. METHOD OF COPING WITH SHIFT LENS ERROR
1-8. GPS RECEIVING CHECK (PJ260V/PJ260VE/XR260V/XR260VE)
1-9. PRECAUTION ON REPLACING THE LD-279 BOARD (PJ260/PJ260E/PJ260V/PJ260VE)
1-10. PRECAUTION ON REPLACING THE HDD (XR260V/XR260VE)
1-11. NOTE ON REPLACING PROJECTOR UNIT (PJ260/PJ260E/PJ260V/PJ260VE)

Digital HD Video Camera Recorder

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SONY®

HDR-PJ260/PJ260E/PJ260V/PJ260VE/XR260E/XR260V/XR260VE_L2
9-834-636-34

Sony Corporation

2012F08-1

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Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2011.12	Official Release	—	—
1.1	2012.01	Revised-1 (A1 11-344)	• Change of SERVICE NOTE. Page 1-2, 1-3, 1-4, 1-5, 1-6, 1-7	Yes
1.2	2012.05	Revised-2 (A2 12-019)	• Addition of North European Model (PJ260E). Page 3 • Change of EXPLODED VIEWS. Page 2-10	Yes
1.3	2012.06	Revised-3 (A3 12-146)	• Correction of REPAIR PARTS LIST. Page 2-13, 2-14 • Correction of ACCESSORIES. Page 2-15	Yes

These specifications are extracted from instruction manual of HDR-PJ260E/PJ260VE/XR260E/XR260VE.

SPECIFICATIONS

System

Signal format: PAL color, CCIR standards
HDTV 1080/50i, 1080/50p specification
Movie recording format:
HD: MPEG-4 AVC/H.264 AVCHD format Ver.2.0 compatible
STD: MPEG2-PS
Audio recording system:
HDR-PJ260E/PJ260VE/XR260E/XR260VE
Dolby Digital 2ch/5.1ch
Dolby Digital 5.1 Creator
Photo file format:
DCF Ver.2.0 Compatible
Exif Ver.2.3 Compatible
MPF Baseline Compatible
Recording media (Movie/Photo):
Internal memory
HDR-PJ260E/PJ260VE: 16 GB
Hard disk
HDR-XR260E/XR260VE: 160 GB
"Memory Stick PRO Duo" media
SD card (Class 4 or faster)
The capacity that a user can use
HDR-PJ260VE: Approx. 12.8 GB[*1]
HDR-PJ260E: Approx. 15.8 GB[*2]
HDR-XR260VE: Approx. 156 GB[*1]
HDR-XR260E: Approx. 159 GB[*2]

[*1] 1 GB equals 1 billion bytes, 2.8 GB is used for pre-installed map and another portion is used for data management functions. Only pre-installed demonstration movie may be deleted.

[*2] 1 GB equals 1 billion bytes, a portion of which is used for system management and/or application files. Only preinstalled demonstration movie may be deleted.

Image device:
HDR-PJ260E/PJ260VE/XR260E/XR260VE:
4.6 mm (1/3.91 type) CMOS sensor
Recording pixels (photo, 16:9):
Max. 8.9 mega (3 984 × 2 240) pixels[*1]
Gross: Approx. 5 430 000 pixels
Effective (movie, 16:9)[*2]:
Approx. 2 230 000 pixels
Effective (photo, 16:9):
Approx. 2 230 000 pixels
Effective (photo, 4:3):
Approx. 1 670 000 pixels
Lens: G lens
HDR-PJ260E/PJ260VE/XR260E/XR260VE:
30 × (Optical)[*2], 55 × (Extended)[*3], 350 × (Digital)
Filter diameter (HDR-PJ260E/PJ260VE/XR260E/XR260VE): 37 mm (1 1/2 in.)
F1.8 ~ 3.4
Focal length:
f=2.1 mm ~ 63.0 mm (3/32 in. ~ 2 1/2 in.)
When converted to a 35 mm still camera
For movies[*2]: 29.8 mm ~ 894 mm (1 3/16 in. ~ 35 1/4 in.) (16:9)
For photos: 29.8 mm ~ 894 mm (1 3/16 in. ~ 35 1/4 in.) (16:9)
Minimum illumination:
6 lx (lux) (in default setting, shutter speed 1/50 second)
3 lx (lux) ([Low Lux] is set to [On], shutter speed 1/25 second)

[*1] The unique pixel array of Sony's ClearVid and the image processing system (BIONZ) allow still image resolution equivalent to the sizes described.

[*2] [SteadyShot] is set to [Standard] or [Off].

[*3] [SteadyShot] is set to [Active].

Input/Output connectors

A/V Remote Connector: Video and audio output jack
HDMI OUT jack: HDMI mini connector
USB jack: mini-AB/Type A (Built-in USB) (output only)
Headphone jack (HDR-PJ260E/PJ260VE/XR260E/XR260VE):
Stereo minijack (ϕ 3.5 mm)
MIC input jack: Stereo minijack (ϕ 3.5 mm)

LCD screen

Picture: 7.5 cm (3.0 type, aspect ratio 16:9)
Total number of pixels:
HDR-PJ260E/PJ260VE/XR260E/XR260VE:
230 400 (960 × 240)

Projector (HDR-PJ260E/PJ260VE)

Projection type: DLP
Light source: LED (R/G/B)
Focus: Manual
Throw Distance: 0.5 m (1.6 feet) or over
Contrast ratio: 1500:1
Resolution (output): nHD (640 × 360)
Continuous projection time (when using the supplied battery pack):
HDR-PJ260E/PJ260VE: Approx. 1 h 30 min

General

Power requirements: DC 6.8 V/7.2 V (battery pack) DC 8.4 V (AC Adaptor)
USB Charging: DC 5 V 500 mA/1.5 A
Average power consumption:
During camera recording using LCD screen at normal brightness:
HDR-PJ260E/PJ260VE:
HD: 2.7 W STD: 2.5 W
HDR-XR260E/XR260VE:
HD: 3.5 W STD: 3.2 W
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: –20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (approx.):
HDR-XR260E/XR260VE:
59.5 mm × 66 mm × 117.5 mm (2 3/8 in. × 2 5/8 in. × 4 5/8 in.) (w/h/d) including the projecting parts
59.5 mm × 66 mm × 128 mm (2 3/8 in. × 2 5/8 in. × 5 1/8 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack attached
HDR-PJ260E/PJ260VE:
58.5 mm × 64.5 mm × 116.5 mm (2 3/8 in. × 2 5/8 in. × 4 5/8 in.) (w/h/d) including the projecting parts
58.5 mm × 64.5 mm × 128 mm (2 3/8 in. × 2 5/8 in. × 5 1/8 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack attached
Mass (approx.)
HDR-XR260E/XR260VE:
355 g (12 oz) main unit only
405 g (14 oz) including the supplied rechargeable battery pack
HDR-PJ260E/PJ260VE:
320 g (11 oz) main unit only
370 g (13 oz) including the supplied rechargeable battery pack

AC Adaptor AC-L200C/AC-L200D

Power requirements: AC 100 V - 240 V, 50 Hz/60 Hz
Current consumption: 0.35 A - 0.18 A
Power consumption: 18 W
Output voltage: DC 8.4 V*
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: –20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (approx.): 48 mm × 29 mm × 81 mm (1 15/16 in. × 1 3/16 in. × 3 1/4 in.) (w/h/d) excluding the projecting parts
Mass (approx.): 170 g (6.0 oz) excluding the power cord (mains lead)
* See the label on the AC Adaptor for other specifications.

Rechargeable battery pack NP-FV50

Maximum output voltage: DC 8.4 V
Output voltage: DC 6.8 V
Maximum charge voltage: DC 8.4 V
Maximum charge current: 2.1 A
Capacity
Typical: 7.0 Wh (1 030 mAh)
Minimum: 6.6 Wh (980 mAh)
Type: Li-ion

Design and specifications of your camcorder and accessories are subject to change without notice.
• Manufactured under license from Dolby Laboratories.

These specifications are extracted from instruction manual of HDR-PJ260/PJ260V/XR260V.

SPECIFICATIONS

System

Signal format: NTSC color, EIA standards
HDTV 1080/60i, 1080/60p specification
Movie recording format:
HD: MPEG-4 AVC/H.264 AVCHD format Ver.2.0 compatible
STD: MPEG2-PS
Audio recording system:
HDR-PJ260/PJ260V/XR260V
Dolby Digital 2ch/5.1ch
Dolby Digital 5.1 Creator
Photo file format:
DCF Ver.2.0 Compatible
Exif Ver.2.3 Compatible
MPF Baseline Compatible
Recording media (Movie/Photo):
Internal memory
HDR-PJ260/PJ260V: 16 GB
Hard disk
HDR-XR260V: 160 GB
"Memory Stick PRO Duo" media
SD card (Class 4 or faster)
The capacity that a user can use
HDR-PJ260: Approx. 15.8 GB[*2]
HDR-XR260V: Approx. 156 GB[*1]

[*1] 1 GB equals 1 billion bytes, 2.8 GB is used for pre-installed map and another portion is used for data management functions. Only pre-installed demonstration movie may be deleted.

[*2] 1 GB equals 1 billion bytes, a portion of which is used for system management and/or application files. Only preinstalled demonstration movie may be deleted.

Image device:
HDR-PJ260/PJ260V/XR260V:
4.6 mm (1/3.91 type) CMOS sensor
Recording pixels (photo, 16:9):
Max. 8.9 mega (3 984 × 2 240) pixels[*1]
Gross: Approx. 5 430 000 pixels
Effective (movie, 16:9)[*2]:
Approx. 2 230 000 pixels
Effective (photo, 16:9):
Approx. 2 230 000 pixels
Effective (photo, 4:3):
Approx. 1 670 000 pixels
Lens: G lens
HDR-PJ260/PJ260V/XR260V:
30 × (Optical)[*2], 55 × (Extended)[*3], 350 × (Digital)
Filter diameter (HDR-PJ260/PJ260V/XR260V): 37 mm (1 1/2 in.)
F1.8 ~ 3.4
Focal length:
f=2.1 mm ~ 63.0 mm (3/32 in. ~ 2 1/2 in.)
When converted to a 35 mm still camera
For movies[*2]: 29.8 mm ~ 894 mm (1 3/16 in. ~ 35 1/4 in.) (16:9)
For photos: 29.8 mm ~ 894 mm (1 3/16 in. ~ 35 1/4 in.) (16:9)
Color temperature: [Auto], [One Push], [Indoor] (3 200 K), [Outdoor] (5 800 K)
Minimum illumination:
6 lx (lux) (in default setting, shutter speed 1/60 second)
3 lx (lux) ([Low Lux] is set to [On], shutter speed 1/30 second)

[*1] The unique pixel array of Sony's ClearVid and the image processing system (BIONZ) allow still image resolution equivalent to the sizes described.

[*2] [SteadyShot] is set to [Standard] or [Off].

[*3] [SteadyShot] is set to [Active].

Input/Output connectors

A/V Remote Connector: Video and audio output jack
HDMI OUT jack: HDMI mini connector
USB jack: mini-AB/Type A (Built-in USB)
Headphone jack (HDR-PJ260/PJ260V/XR260V): Stereo minijack (ϕ 3.5 mm)
MIC input jack: Stereo minijack (ϕ 3.5 mm)

LCD screen

Picture: 7.5 cm (3.0 type, aspect ratio 16:9)
Total number of pixels:
HDR-PJ260/PJ260V/XR260V:
230 400 (960 × 240)

Projector (HDR-PJ260/PJ260V)

Projection type: DLP
Light source: LED (R/G/B)
Focus: Manual
Throw Distance: 0.5 m (1.6 feet) or over
Contrast ratio: 1500:1
Resolution (output): nHD (640 × 360)
Continuous projection time (when using the supplied battery pack):
HDR-PJ260/PJ260V: Approx. 1 h 30 min

General

Power requirements: DC 6.8 V/7.2 V (battery pack) DC 8.4 V (AC Adaptor)
USB Charging: DC 5 V 500 mA/1.5 A
Average power consumption:
During camera recording using LCD screen at normal brightness:
HDR-PJ260/PJ260V:
HD: 2.7 W STD: 2.5 W
HDR-XR260V:
HD: 3.5 W STD: 3.2 W
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: –20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (approx.):
HDR-XR260V:
59.5 mm × 66 mm × 117.5 mm (2 3/8 in. × 2 5/8 in. × 4 5/8 in.) (w/h/d) including the projecting parts
59.5 mm × 66 mm × 128 mm (2 3/8 in. × 2 5/8 in. × 5 1/8 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack attached
HDR-PJ260/PJ260V:
58.5 mm × 64.5 mm × 116.5 mm (2 3/8 in. × 2 5/8 in. × 4 5/8 in.) (w/h/d) including the projecting parts
58.5 mm × 64.5 mm × 128 mm (2 3/8 in. × 2 5/8 in. × 5 1/8 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack attached
Mass (approx.)
HDR-XR260V:
355 g (12 oz) main unit only
405 g (14 oz) including the supplied rechargeable battery pack
HDR-PJ260/PJ260V:
320 g (11 oz) main unit only
370 g (13 oz) including the supplied rechargeable battery pack

AC Adaptor AC-L200C/AC-L200D

Power requirements: AC 100 V - 240 V, 50 Hz/60 Hz
Current consumption: 0.35 A - 0.18 A
Power consumption: 18 W
Output voltage: DC 8.4 V*
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: –20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (approx.): 48 mm × 29 mm × 81 mm (1 15/16 in. × 1 3/16 in. × 3 1/4 in.) (w/h/d) excluding the projecting parts
Mass (approx.): 170 g (6.0 oz) excluding the power cord (mains lead)
* See the label on the AC Adaptor for other specifications.

Rechargeable battery pack NP-FV50

Maximum output voltage: DC 8.4 V
Output voltage: DC 6.8 V
Maximum charge voltage: DC 8.4 V
Maximum charge current: 2.1 A
Capacity
Typical: 7.0 Wh (1 030 mAh)
Minimum: 6.6 Wh (980 mAh)
Type: Li-ion

Design and specifications of your camcorder and accessories are subject to change without notice.
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Ver. 1.2 2012.05
The changed portions from
Ver. 1.1 are shown in blue.

Model information table

Model	HDR-PJ260	HDR-PJ260E	HDR-PJ260V	HDR-PJ260VE	HDR-XR260E	HDR-XR260V	HDR-XR260VE
Destination	KR	NE, E, CH, JE	US, CND, E	AEP,UK,NE, E, AUS	E, CH	US, CND, E, BR	AEP,UK,NE, E, AUS, HK
COLOR system	NTSC	PAL	NTSC	PAL	PAL	NTSC	PAL
Recording media	Internal memory 16 GB	Internal memory 16 GB	Internal memory 16 GB	Internal memory 16 GB	Hard Disk Drive 160 GB	Hard Disk Drive 160 GB	Hard Disk Drive 160 GB
LENS	LSV-1450A	LSV-1450A	LSV-1450A	LSV-1450A	LSV-1450A	LSV-1450A	LSV-1450A
Projector	●	●	●	●	—	—	—
GPS	—	—	●	●	—	●	●
Hot shoe	—	—	—	—	—	—	—
Charging capacitor (for flash)	—	—	—	—	—	—	—

MODEL GROUP

Projector Model: PJ260/PJ260E/PJ260V/PJ260VE
Non Projector Model: XR260E/XR260V/XR260VE

HDD Model: XR260E/XR260V/XR260VE
IM Model (Internal Memory Model): PJ260/PJ260E/PJ260V/PJ260VE

GPS Model: PJ260V/PJ260VE/XR260V/XR260VE
Non GPS Model: PJ260/PJ260E/XR260E

- Abbreviation
  AUS: Australian model
  BR: Brazilian model
  CH: Chinese model
  CND: Canadian model
  HK: Hong Kong model
  JE: Tourist model
  KR: Korea model
  NE: North European model

Caution
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Set the soldering iron tip temperature to 350 °C approximately.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

This unit uses unleaded solder.
Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately.
  If cannot control temperature, solder/unsolder at high temperature for a short time.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

1. SERVICE NOTE

1-1. POWER SUPPLY DURING REPAIRS

In this unit, about 10 seconds after power is supplied to the battery terminal using the regulated power supply (8.4 V), the power is shut off so that the unit cannot operate.
These following method is available to prevent this.

Method:
Use the AC power adaptor.

1-2. PRECAUTION ON REPLACING THE VC-653 BOARD

Note the following when replacing the board.

DESTINATION DATA
When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting.
Start the Adjust Manual in the Adjust Station and execute the “DESTINATON DATA WRITE”.
After the board replacement, the error of the built-in recording media may be displayed. In this case, execute the [DESTINATION DATA WRITE] then the error will be cleared. If it is not cleared with [DESTINATION DATA WRITE], format the built-in recording media.

USB SERIAL SAVE
When you replace to the repairing board, get the data from the former one.
Start the Adjust Manual in the Adjust Station and perform “USB SERIAL SAVE” to get the data.

USB SERIAL No.
The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.
Start the Adjust Manual in the Adjust Station and execute the “USB SERIAL No. INPUT”.

Data for projector (PJ260/PJ260E/PJ260V/PJ260VE)
Before replacing the board with a spare board, acquire the following data from the current board.
- Fixed value (that shows irradiation performance of the projector).
- Serial number of the projector unit.

To acquire the data, start Adjust Manual from Adjust Station and select [Projector Data Reference] on the [DATA] tab.

About unit with Internal Memory Model
After the board replacement, execute the procedure below first.
1. Execute the [DESTINATION DATA WRITE] of ADJUST tab in the Adjust Manual.
2. Execute the script files below. (Refer to the flowchart in Fig. 1)
   - 11DdmMmcReadTestMINI_v4.vbe
   - 11DdmMmcMakePartition_v4.vbe

Note: Download the script files from TISS Homepage.
When searching in the TISS Homepage, enter “IM_VC_TOOL” for keyword in the Part Number field.

Unless these script files are executed, the following symptoms may appear.
Make sure execute the above script files.
- The internal memory is not recognized as a media.
- The management file saved in the internal memory model cannot be repaired.
- The internal memory cannot be formatted.

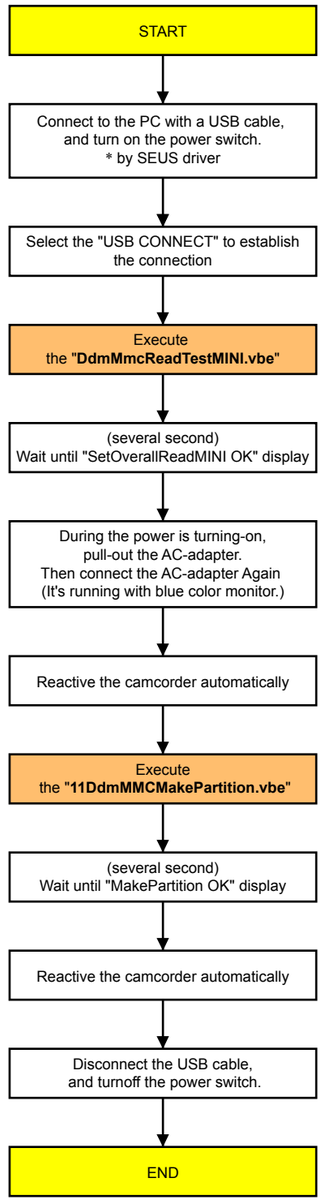

START
Connect to the PC with a USB cable, and turn on the power switch. * by SEUS driver
Select the "USB CONNECT" to establish the connection
Execute the "DdmMmcReadTestMINI.vbe"
(several second) Wait until "SetOverallReadMINI OK" display
During the power is turning-on, pull-out the AC-adapter. Then connect the AC-adapter Again (It's running with blue color monitor.)
Reactive the camcorder automatically
Execute the "11DdmMMCMakePartition.vbe"
(several second) Wait until "MakePartition OK" display
Reactive the camcorder automatically
Disconnect the USB cable, and turnoff the power switch.
END

Fig.1

1-3. ADDITION OF DESTINATION DATA FILE

If the Destination Data file included in the Adjust manual is old, “DESTINATION DATA WRITE” cannot be executed in some cases.
In that case, download a new Destination Data file from the TISS homepage according to the following procedure.

Note 1: To perform Destination Data Write for this model, the Adjust manual of the DSC-WX50 series must have been installed.
Install the Adjust manual of the DSC-WX50 series in advance.
Note 2: The actual image may differ from the image shown above.

1) If the Destination Data file in the Adjust manual in use is old, the window shown in Fig. 1 is displayed.
Click the [OK] button.

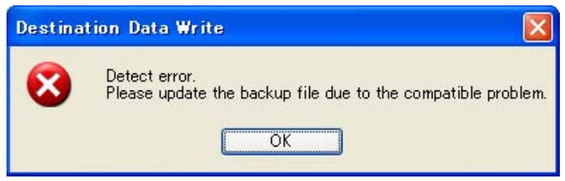
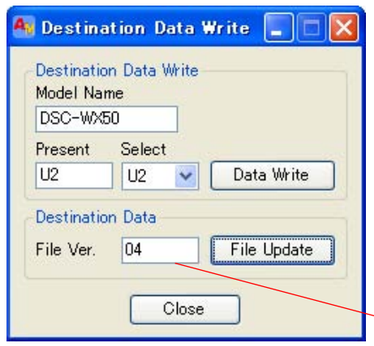


Fig. 1

2) The Destination Data Write window opens.
Check the version of the Destination Data file retained in the Adjust manual.



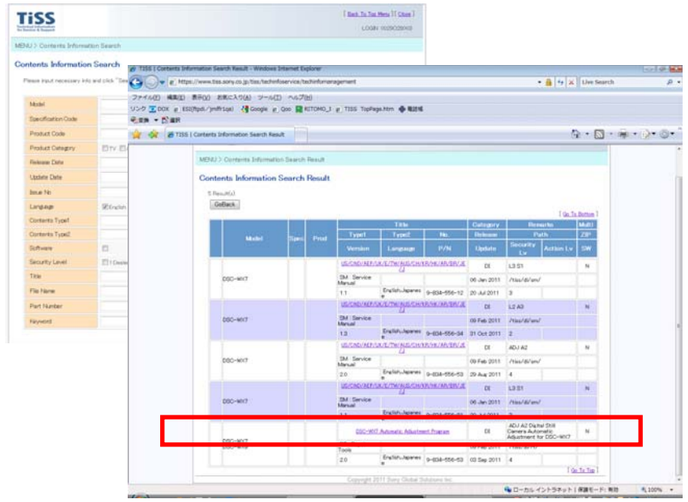
Destination Ver. window

3) Search the model whose new Destination Data file you want to get on the TISS homepage.
When the Destination Data file has been updated, a file with a name “Destination File For ‘model name’.zip” is registered.

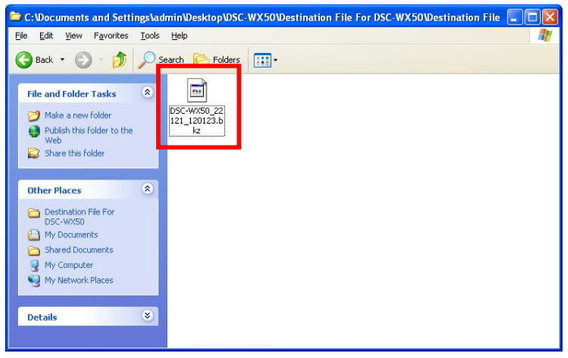
(Example) Destination File For DSC-WX50.zip

Furthermore, the version supported by the Destination Data file is shown in the Remarks column.

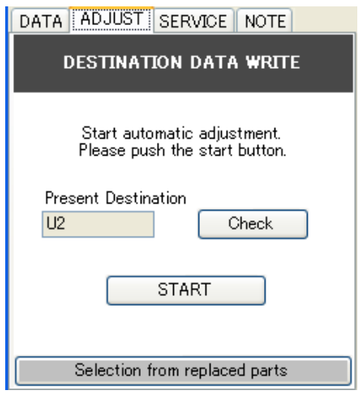
Note : If the Destination Data file has not been updated, contact the Service Headquarters.



4) Download the Destination Data file of the relevant model and unzip the file.

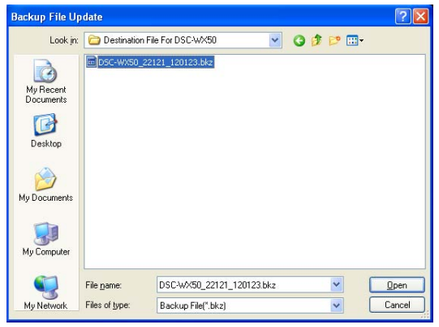


5) Execute “DESTINATION DATA WRITE” in the Adjust tab of the Adjust manual.
Click the [START] button.

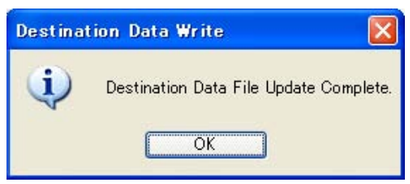


6) Click the [File Update] button in the window.

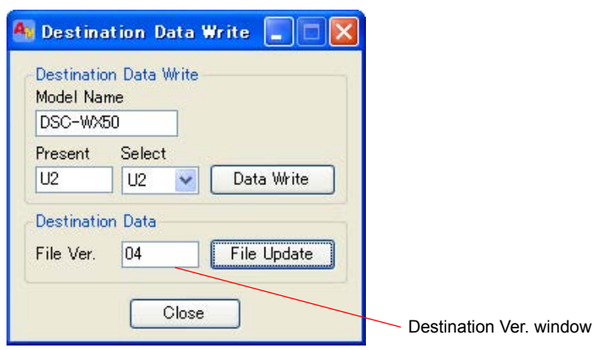
7) A file selection screen opens. Select the Destination Data file to be added and click the [Open] button.



8) When the file has been successfully added, the following window opens.



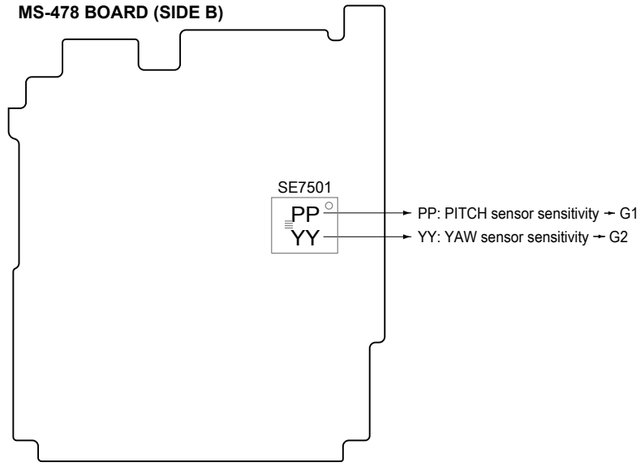
9) Check the Destination Ver. window and confirm that the version has been updated.



1-4. PRECAUTION ON REPLACING THE MS-478 BOARD

Angular Velocity Sensor

When you replace to the repairing board, write down the sensitivity displayed on the angular velocity sensor SE7501 (PITCH/YAW). Start the Adjust Manual in the Adjust Station and execute the “GYRO sensor sensitivity adj”.



Note: The sensor sensitivity of SE7501 (PITCH/YAW) on MS-478 board is written only repair parts.

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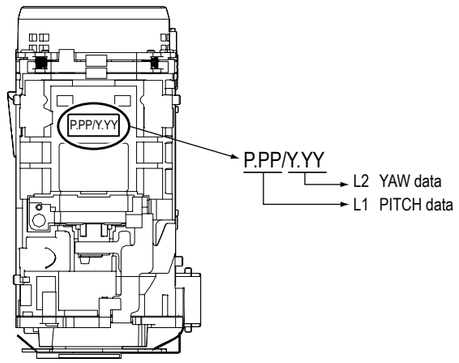
The changed portions from
Ver. 1.0 are shown in blue.

1-5. PRECAUTION ON REPLACING THE LENS

When replacing the lens, write down the PITCH/YAW data given on the data sheet of the replacement lens for service.
Start the Adjust Manual in the Adjust Station and execute the “GYRO sensor sensitivity Adj”.



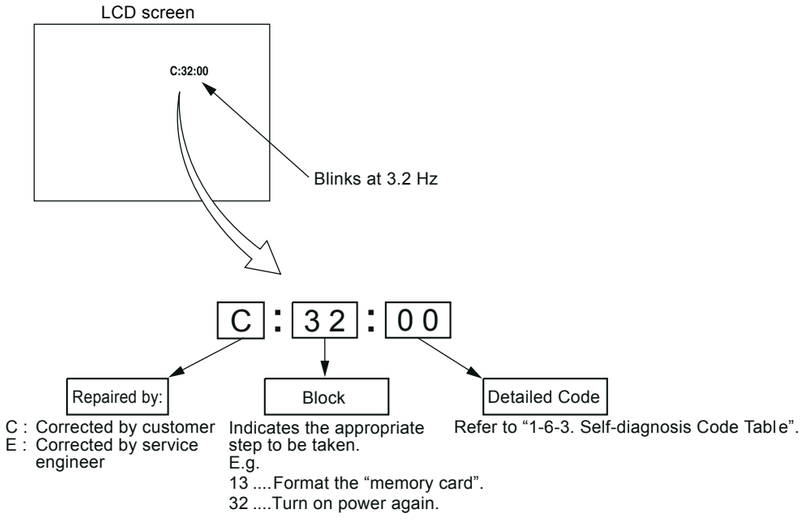
1-6. SELF-DIAGNOSIS FUNCTION

1-6-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the LCD screen what to do.
This function consists of two display; self-diagnosis display and service mode display.Details of the self-diagnosis functions are provided in the Instruction manual.

1-6-2. Self-diagnosis Display

When problems occur while the unit is operating, the counter of the LCD screen shows a 4-digit display consisting of an alphabet and numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code”of the problem.



1-6-3. Self-diagnosis Code Table

Self-diagnosis Code					Symptom/State	Correction
Repaired by:	Block Function		Detailed Code			
C	0	4	0	0	Non-standard battery is used.	Use the InfoLITHIUM battery.
C	0	6	0	0	The battery pack temperature is high.	Change the battery pack or place it in a cool place.
C	1	3	0	1	Memory card is unformatted. Memory card is broken.	Format the memory card. Insert a new memory card.
C	1	3	0	2*	Access error	Remove the power source. Reconnect it again and operate your camcorder again.
C	1	3	0	3*	Access error (External mdedia)	Turn power off and turn power on again.
C	1	3	0	4*	Drive fault (External mdedia)	Turn power off and turn power on again.
C (E	3 6	2 1	6 0	0 0)	Difficult to adjust focus (Cannot initialize focus)	Retry turn the power on by the power switch. If it does not recover, check the focus sensor of lens block (pin ⑦ of CN4002 on the LD-279 board). If it is OK, check the focus motor drive IC (IC5501 on the VC-653 board).
E	2	0	0	0	Flash memory data are rewritten.	Make flash memory data correct value. (Note 1)
E	3	1	0	0	Drive fault	Turn power off and turn power on again.
E	6	1	1	0	Zoom operations fault (Cannot initialize zoom lens.)	Inspect the lens block zoom sensor signal (pin ⑨ of CN4002 on the LD-279 board) when zooming is performed when the zoom lever is operated, and the zoom motor drive circuit (IC5501 on the VC-653 board) when zooming is not performed.
E	6	1	1	1	The abnormalities in initialization of the focus lens and the abnormalities in initialization of the zoom lens occurred simultaneously.	Check both C: 32: 60 and E: 61: 10 of the self-diagnosis code.
E	6	1	3	0	Reset position detection error on the stepper iris initializing	Turn the power on to open lens barrier. Disconnect the battery or power cord, and then connect again. Confirm that the iris blades in lens are working. If iris blades do not working, check the iris motor drive IC in lens drive block (CN4002 pin ⑰, ⑱ on LD-279 board). If iris blades work normally, confirm that they are closing completely and confirm following item. • Case of the iris blades do not close normally Replace the lens block). • Case of “E: 61: 30” is appeared and iris blades closed completely. Confirm that communication with lens block is normal. • Case of LCD is not displayed normally Check that connection between CN6702 on CM-123 board and CN4002 on VC-653 board by FP-1488 flexible board. • Case of LCD is displayed normally Replace the lens block.
E	6	2	0	0	Handshake correction function does not work well. (With PITCH angular velocity sensor output stopped.)	Inspect PITCH angular velocity sensors (SE7501 on the MS-478 board) peripheral circuits.
E	6	2	0	1	Handshake correction function does not work well. (With YAW angular velocity sensor output stopped.)	Inspect YAW angular velocity sensors (SE7501 on the MS-478 board) peripheral circuits.
E	6	2	0	2	Abnormality of IC for steadyshot.	Refer to [1-7-1. E : 62 : 02 (Abnormality of IC for Steadyshot) Occurred].
E	6	2	0	3	IC for steadyshot and micro controller communication abnormality among.	Inspect the steadyshot circuit (IC5501 on the VC-653 board).
E	6	2	0	4	Image vibration correction during handshake function does not work.	Inspect the image vibration angular velocity sensors (SE7701 on the LD-279 board) peripheral circuits.
E	6	2	1	0	Shift lens initializing failure.	Replacement of lens block. (Note 3) If an error occurs again, replace the VC-653 board.
E	6	2	1	1	Shift lens overheating (Pitch)	Refer to [1-7-2. E : 62 : 11 (Shift Lens Overheating (Pitch)) Occurred].
E	6	2	1	2	Shift lens overheating (Yaw)	Refer to [1-7-3. E : 62 : 12 (Shift Lens Overheating (Yaw)) Occurred].

Note 1: Start the Adjust Manual in the Adjust Station and refer to the “DESTINATON DATA WRITE”.
Note 2: Functions of codes with * mark are not provided in this unit.

Ver. 1.1 2012.01
The changed portions from
Ver. 1.0 are shown in blue.

Self-diagnosis Code				Symptom/State	Correction
Repaired by:	Block Function		Detailed Code		
E	6	2	2 0	Abnormality of thermistor.	Refer to [1-7-4. E : 62 : 20 (Abnormality of Thermistor) Occurred].
E	9	1	0 1*	Abnormality when flash is beingcharged.	Turn power off and turn power on again.
E	9	1	0 2*	Abnormality of LED Video light.	Turn power off and turn power on again.
E	9	1	0 3*	Abnormality of LED Video light Temperature detection.	Turn power off and turn power on again.
E	9	2	0 1	Battery current value goes over the max discharge current	Check the remaining battery power because this symptom maybe depended on the remaining battery level, and confirm whether or not the symptom is occurred after replacing the battery. If the symptom is still occurred, overhaul inspection is needed. Check each output of DC/DC converter (IC4301 on the VC-653 board) with connected the DC JACK (J901) on the VC-653 board. (The minimum connection to periphery)
E	9	4	0 0	Fault of writing or erasing the flash memory	IM Model: Inspect the flash memory (IC8101 on the LD-279 board).
E	9	4	0 1	Internal flash memory fault	IM Model: Inspect the flash memory (IC8101 on the LD-279 board).
E	9	4	0 2	BGM data error	Check the CPU (IC1301 on the VC-652 board).
E	9	5	0 0	GPS hardware error	GPS Model: Check whether the FFC-254 flexible flat cable is broken,and check whether it is inserted imperfectly. If there is no problem the flexible board, inspect or replacement of the GP-037 board.
E	9	6	0 0	Map area mount error	HDD Model: Inspect or replacement of the HDD. IM Model: Inspect or replacement of the LD-279 board.
E	9	7	0 0	Projector hardware error	Turn power off and turn power on again.

Note 3: When the lens block was replaced, start the Adjust Manual in the Adjust Station and execute the necessary adjustment items.
After the adjustment, make sure with the STEADYSHOT turned ON that the steadyshot functions appropriately in the handheld operation.

1-7. METHOD OF COPING WITH SHIFT LENS ERROR

LD-279 BOARD (SIDE A)

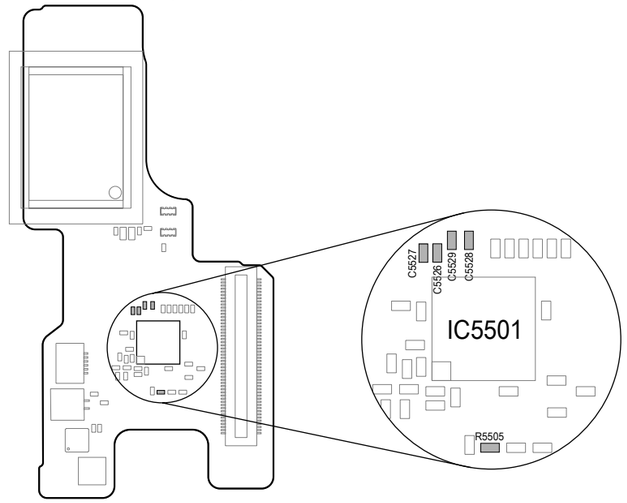
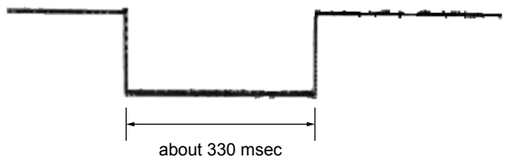


Fig. 1
Measurement points on the VC-652 board



Note: The length of low section will vary a little depending on the conditions.

Fig. 2
Change in output voltage of R5505 on the LD-279 board

1-7-1. E : 62 : 02 [Abnormality of IC for Steadyshot] Occurred

Order	Procedure
1	Turn the power OFF.
2	While measuring with an oscilloscope the output voltage of R5505 in the periphery of IC5501 on the LD-279 board, turn the power ON to check that the output voltage immediately after the power on change as shown in Fig. 2.
3	If the output voltage change as shown in Fig. 2, replace the lens block (Note). If it does not change as shown in Fig. 2, inspect the camera control circuit (IC1301 of VC-653 board) periphery.

Note: When the lens block was replaced, start the Adjust Manual in the Adjust Station and execute the necessary adjustment items.
After the adjustment, make sure with the STEADYSHOT turned ON that the steadyshot functions appropriately in the handheld operation.

1-7-2. E : 62 : 11 [Shift Lens Overheating (Pitch)] Occurred

Order	AdjustBlock	AdjustCode	Order
1			Start the Adjust Manual in the Adjust Station and execute the [Measure to E:62:11/12] on the [SERVICE] tab.
2			Check if the shift lens moves while setting the order 1. If the shift lens does not move, replace the lens block (Note). When the shift lens moved, proceed to the order 3.
3			While setting the order 1, measure with an oscilloscope the output voltage of C5526 and C5527 in the periphery of IC5501 on the LD-279 board to check the output voltage varies.
4			If the output voltage does not vary, replace the lens block (Note). When the output voltage varied, proceed to the order 5.
5			Turn the power OFF.
6			While measuring with an oscilloscope the output voltage of R5505 in the periphery of IC5501 on the LD-279 board, turn the power ON to check that the output voltage immediately after the power on change as shown in Fig. 2.
7			If the output voltage change as shown in Fig. 2, replace the lens block(Note). If it does not change as shown in Fig. 2, inspect the camera control circuit (IC1301 of VC-653 board and IC5501 of LD-279 board) periphery.

Note: When the lens block was replaced, start the Adjust Manual in the Adjust Station and execute the necessary adjustment items.
After the adjustment, make sure with the STEADYSHOT turned ON that the steadyshot functions appropriately in the handheld operation.

1-7-3. E : 62 : 12 [Shift Lens Overheating (Yaw)] Occurred

Order	AdjustBlock	AdjustCode	Order
1			Start the Adjust Manual in the Adjust Station and execute the [Measure to E:62:11/12] on the [SERVICE] tab.
2			Check if the shift lens moves while setting the order 1. If the shift lens does not move, replace the lens block (Note). When the shift lens moved, proceed to the order 3.
3			While setting the order 1, measure with an oscilloscope the output voltage of C5528 and C5529 in the periphery of IC5501 on the LD-279 board to check the output voltage varies.
4			If the output voltage does not vary, replace the lens block (Note). When the output voltage varied, proceed to the order 5.
5			Turn the power OFF.
6			While measuring with an oscilloscope the output voltage of R5505 in the periphery of IC5501 on the LD-279 board, turn the power ON to check that the output voltage immediately after the power on change as shown in Fig. 2.
7			If the output voltage change as shown in Fig. 2, replace the lens block(Note). If it does not change as shown in Fig. 2, inspect the camera control circuit (IC1301 of VC-653 board and IC5501 of LD-279 board) periphery.

Note: When the lens block was replaced, start the Adjust Manual in the Adjust Station and execute the necessary adjustment items.
After the adjustment, make sure with the STEADYSHOT turned ON that the steadyshot functions appropriately in the handheld operation.

1-7-4. E : 62 : 20 [Abnormality of Thermistor] Occurred

Order	Procedure
1	Turn the power ON.
2	Confirm the connections of flexible flat cables and connectors between the lens block and LD-279 board.
3	In case of no malfunction of connections, replace the lens block with new one (Note) . When the error has occurred in spite of the lens replacement, replace LD-279 board with new one.

Note: When the lens block was replaced, start the Adjust Manual in the Adjust Station and execute the necessary adjustment items.
After the adjustment, make sure with the STEADYSHOT turned ON that the steadyshot functions appropriately in the handheld operation.

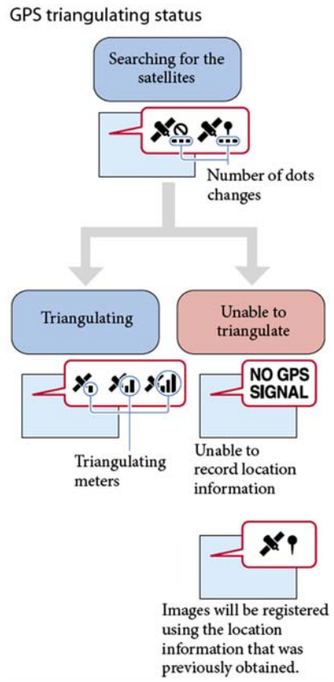
1-8. GPS RECEIVING CHECK (PJ260V/PJ260VE/XR260V/XR260VE)

After a part of set was replaced or after the set was assembled, check the reception of GPS signal.

How to check the GPS function

Bring your camcorder to an open area, and set the GPS to ON (appears on the LCD screen). Your camcorder starts trying to triangulate. When your camcorder triangulates successfully, it will record the location information at the time movies and photos were recorded.

• The indicator changes according to the strength of GPS signal reception.


GPS triangulating status
Searching for the satellites
Number of dots changes
Triangulating
Unable to triangulate
NO GPS SIGNAL
Triangulating meters
Unable to record location information
Images will be registered using the location information that was previously obtained.

• It may take a while before the camcorder starts triangulating.

To return the display of the unit to “A message appears asking you to confirm whether you agree with the terms of the license agreement of the map data,” make settings according to the instructions on the SERVICE tab in the Adjustment Manual.

Use GPS Assist Data

If you import GPS Assist Data from your computer to your camcorder using the supplied software “PlayMemories Home,” the time it takes the camcorder to acquire your location information can be shortened.
Connect the camcorder to a computer that is connected to the Internet. The GPS Assist Data will be updated automatically.

1-9. PRECAUTION ON REPLACING THE LD-279 BOARD (PJ260/PJ260E/PJ260V/PJ260VE)

Do not factory check LD-279 board (PJ260/PJ260E/PJ260V/PJ260VE) in which Map Data is installed.
The Map data is erased when the factory check is done.

1-10. PRECAUTION ON REPLACING THE HDD (XR260V/XR260VE)

Do not factory check the HDD (XR260V/XR260VE) in which Map Data is installed.
The Map Data is erased when the factory check is done.

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The changed portions from
Ver. 1.0 are shown in blue.

1-11. NOTE ON REPLACING PROJECTOR UNIT (PJ260/PJ260E/PJ260V/PJ260VE)

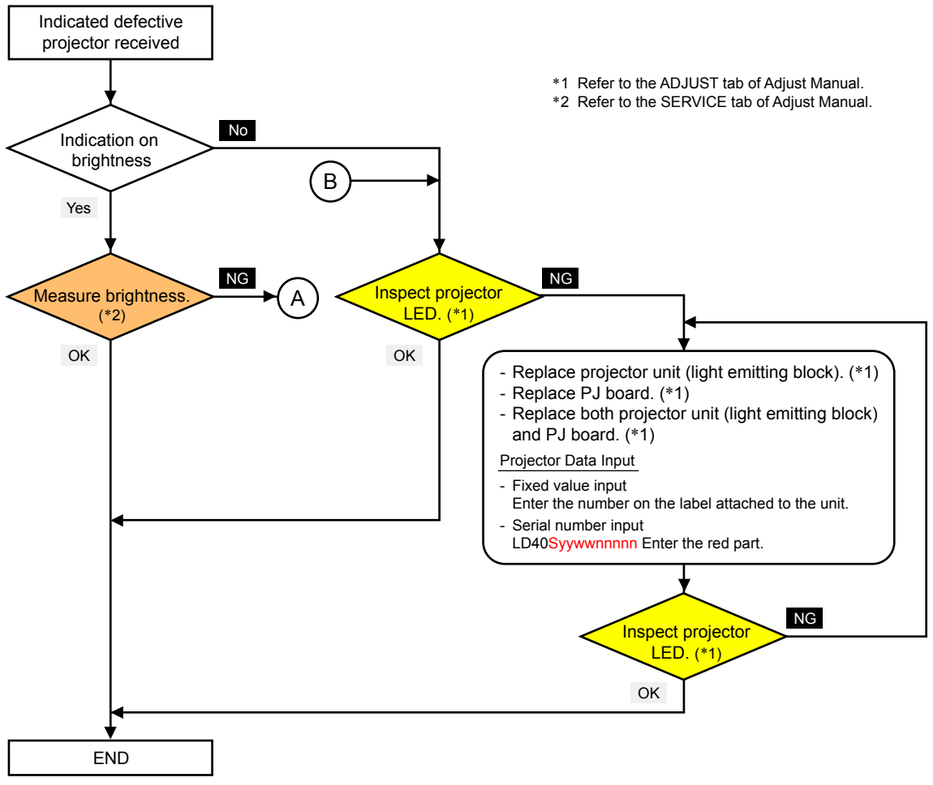
Refer to the following flowchart when repairing or inspecting the projector's projection function.

If you have received an indication on the projector's projection function from the customer, check defective part according to the following flowchart.
When a defective part has been clarified, repair the projector according to the check result.

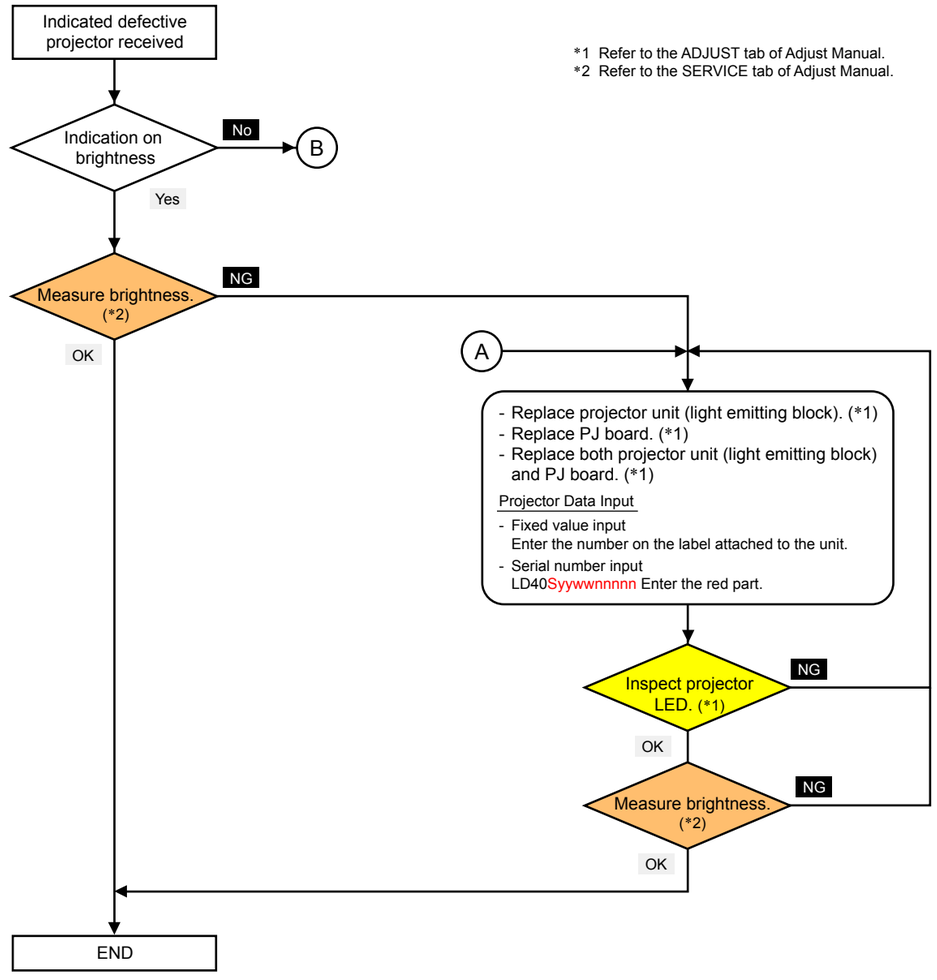
Note 1: The projector unit (copper plate in particular) becomes hot after it is used.
When replacing a part of the projector unit, wait until it is cooled down.
Wipe the lens gently with a soft cloth such as a cleaning cloth or glass cleaning cloth.

Note 2: Stubborn stains may be removed with a soft cloth such as a cleaning cloth or glass cleaning cloth lightly dampened with water.
Never use a solvent such as alcohol, benzene or thinner; acid, alkaline or abrasive detergent; or a chemical cleaning cloth, as they will damage the lens surface.

Projector problem checking procedure (other than indication on brightness)



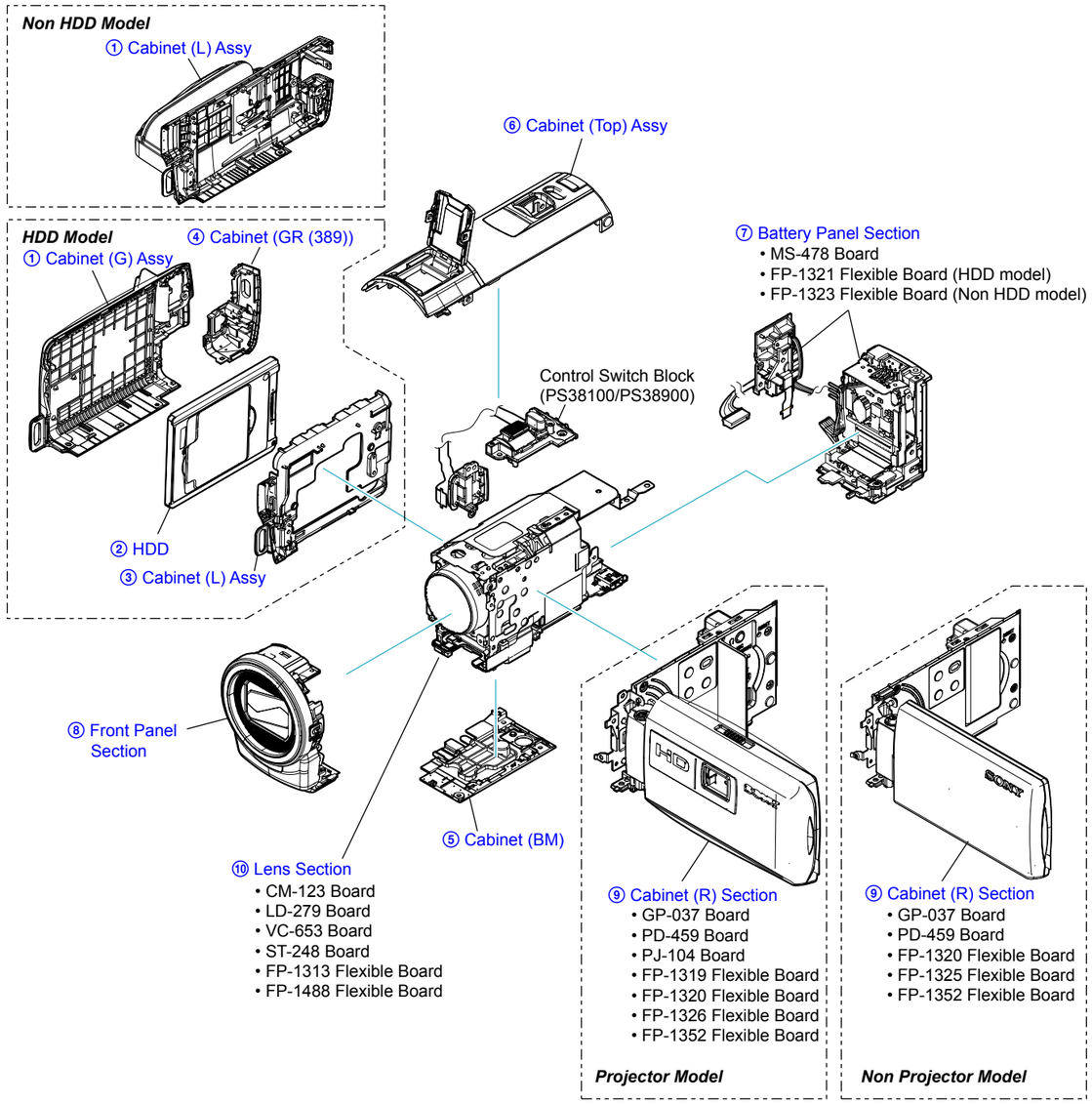
Projector problem checking procedure (indication on brightness)



2. REPAIR PARTS LIST

IDENTIFYING PARTS

Follow the disassembly in the numerical order given.



THE COMBINATION OF TYPES

	PJ260	PJ260E	PJ260V	PJ260VE	XR260E	XR260V	XR260VE
Non HDD Model	●	●	●	●			
HDD Model					●	●	●
Projector Type	●	●	●	●			
Non Projector Type					●	●	●

Link ACCESSORIES ASSEMBLY

(ENGLISH)

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , µPC... , µPC... ,
  uPD..., µPD...

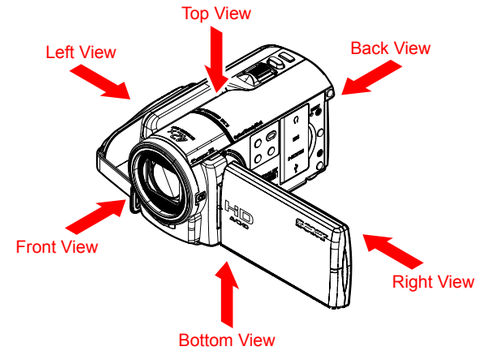
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

• Abbreviation

AUS	: Australian model
BR	: Brazilian model
CH	: Chinese model
CND	: Canadian model
HK	: Hong Kong model
JE	: Tourist model
KR	: Korea model
NE	: North European model

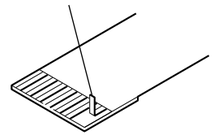
View Position



NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of bent at the terminal.
  Do not insert the cable insufficiently nor crookedly.
- When remove a connector, don't pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, don't press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point. (Be careful or some pieces of gilt may be left inside)

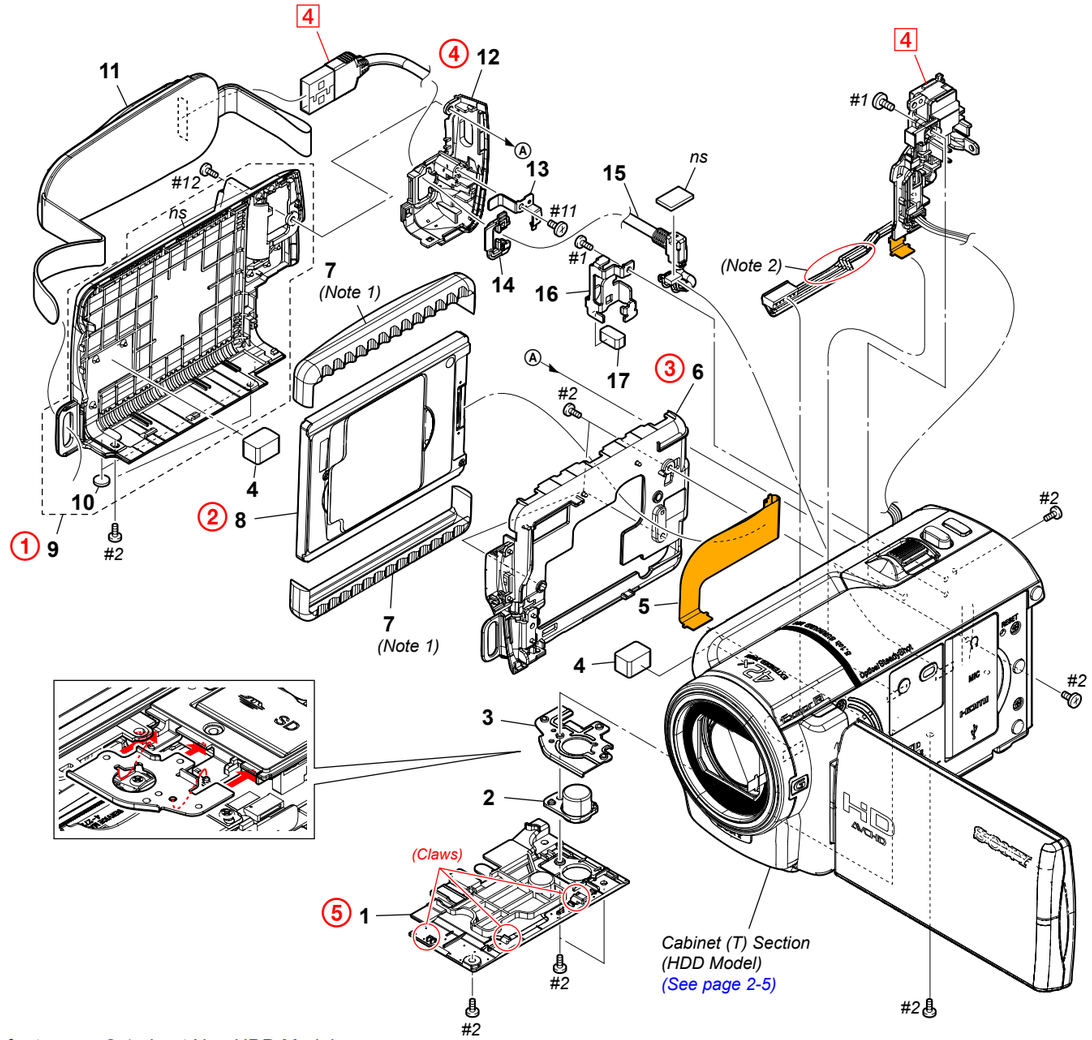


2-1. EXPLODED VIEWS

2-1-1. OVERALL SECTION-1
(HDD Model)

Refer to page 2-4 about Non HDD Model.

ns : not supplied



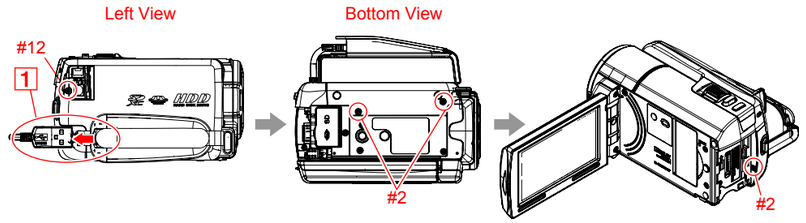
Refer to page 2-4 about Non HDD Model.

Ref. No.	Part No.	Description
1	4-271-963-01	CABINET (BM (381))
2	3-283-643-01	SCREW, TRIPOD
3	4-265-542-01	RETAINER, TRIPOD
4	4-271-955-01	GASKET (G (389))
5	1-885-090-21	FP-1517 FLEXIBLE BOARD
6	A-1856-555-A	CABINET (L) ASSY (378)
7	4-194-556-01	DAMPER (1), 11STYLE (Note 1)
8	1-840-610-11	HDD (MK1639GSL-160GB) (XR260E)
8	A-1860-944-A	SERVICE, HDD (MK1639GSL) (XR260V/XR260VE) (SERVICE)
9	A-1856-564-A	CABINET (G) ASSY (378)
10	2-589-376-01	FOOT (395), RUBBER
11	4-414-595-01	BELT (K), 12 TYPE GRIP
12	4-271-949-01	CABINET (GR (389))
13	4-271-954-01	SHEET METAL (389), CONNECT
14	4-271-953-01	GUARD (389), BELT
15	1-838-712-21	CABLE, BUILT-IN USB
16	4-271-952-01	SHEET METAL (R (389)), BELT
17	4-271-961-01	GASKET (UA (389))
#1	2-635-562-11	SCREW (M1.7)
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

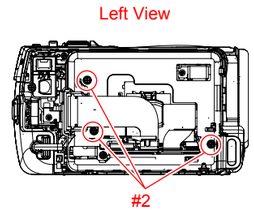
DISASSEMBLY

1. Remove to numerical order (① to ⑤) in the left figure.

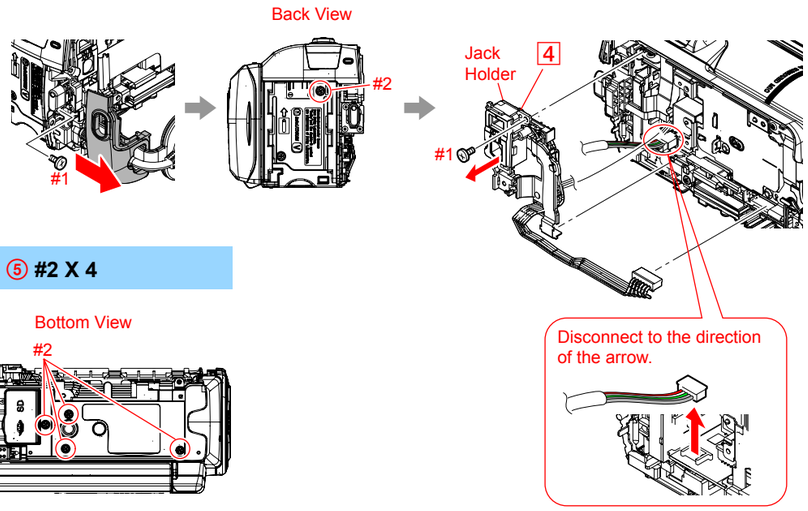
① Disconnect ([1]) → #12 X 1 → #2 X 3



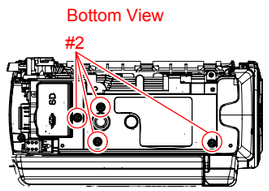
③ #2 X 3



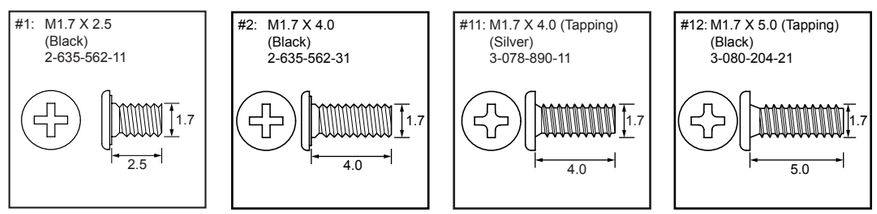
④ #1 X 1 → #2 X 1 → #1 X 1 → Remove the Jack Holder ([4])



⑤ #2 X 4

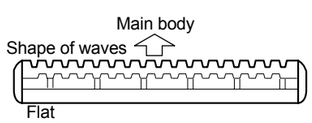


Screw



Note

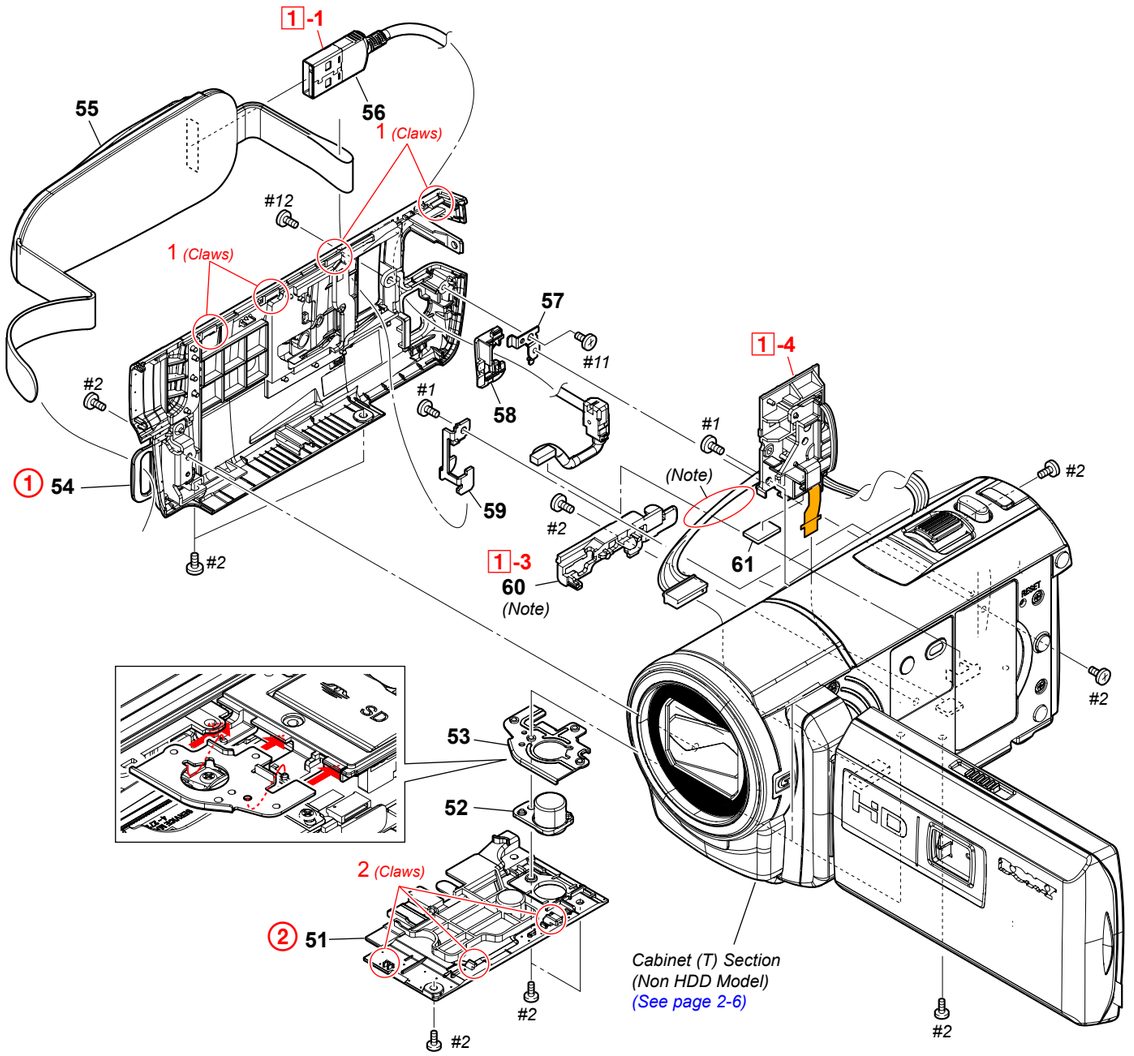
Note 1: Direction of installation of 11 Style Damper (1) as shown in the figure.



Note 2: Refer to "Assembly-1: Installation Cautions of the DC Jack Harness (HDD Model).".

2-1-2. OVERALL SECTION-1
(Non HDD Model)

Refer to page 2-3 about HDD Model.



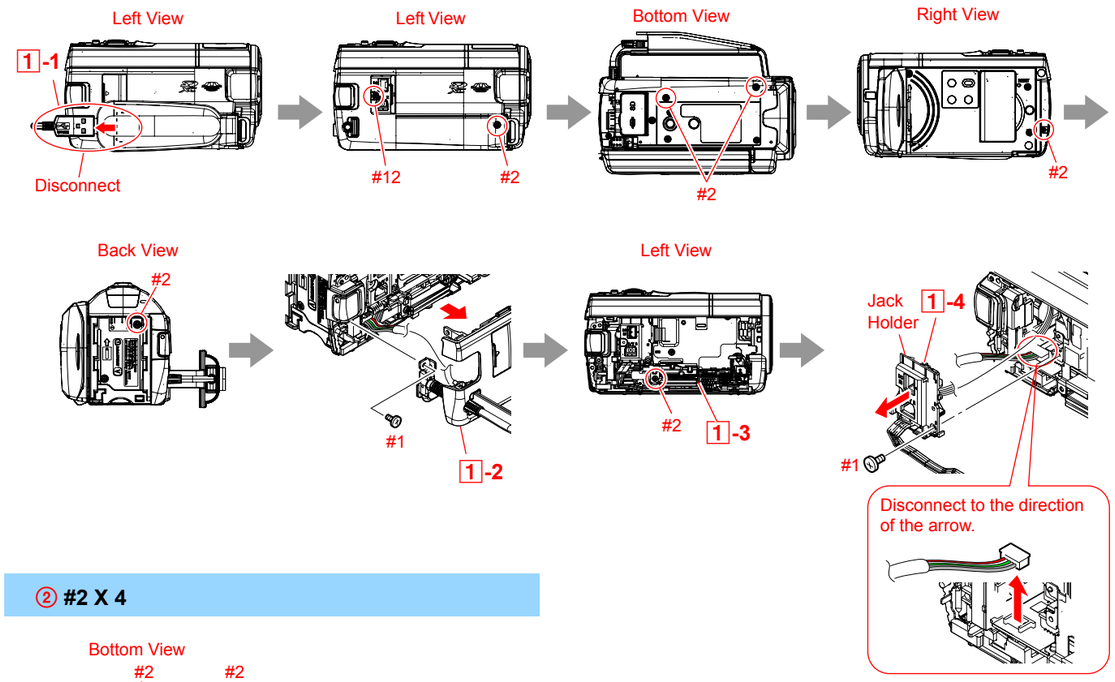
Refer to page 2-3 about HDD Model.

Ref. No.	Part No.	Description
51	4-271-963-01	CABINET (BM (381))
52	3-283-643-01	SCREW, TRIPOD
53	4-265-542-01	RETAINER, TRIPOD
54	A-1856-557-A	CABINET (L) ASSY (376B) (BLACK)
54	A-1856-733-A	CABINET (L) ASSY (376R) (RED)
55	4-414-595-01	BELT (K), 12 TYPE GRIP
56	1-838-712-21	CABLE, BUILT-IN USB
57	4-265-545-01	SHEET METAL (365), CONNECT
58	4-271-959-01	GUARD (381), BELT
59	4-265-546-01	SHEET METAL (R (365)), BELT
60	4-298-878-01	DC (385), HOLDER (Note)
61	4-415-289-01	RETAINER (386), USB
#1	2-635-562-11	SCREW (M1.7)
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

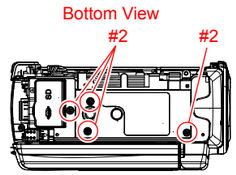
DISASSEMBLY

1. Remove to numerical order (① to ②) in the left figure.

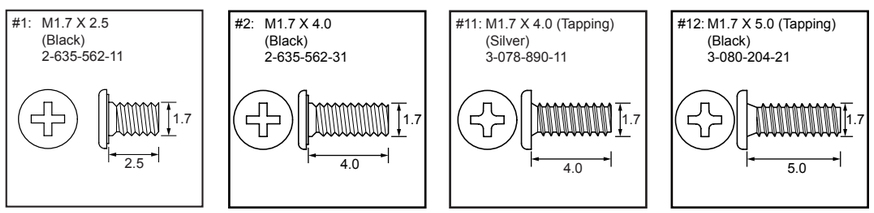
① Disconnect (1-1) → #12 X 1 → #2 X 5 → #1 X 1 → Remove the Cabinet (L) Assy (1-2) → #2 X 1 → Remove the Holder DC (1-3) → #1 X 1 → Remove the Holder Jack (1-4)



② #2 X 4



Screw

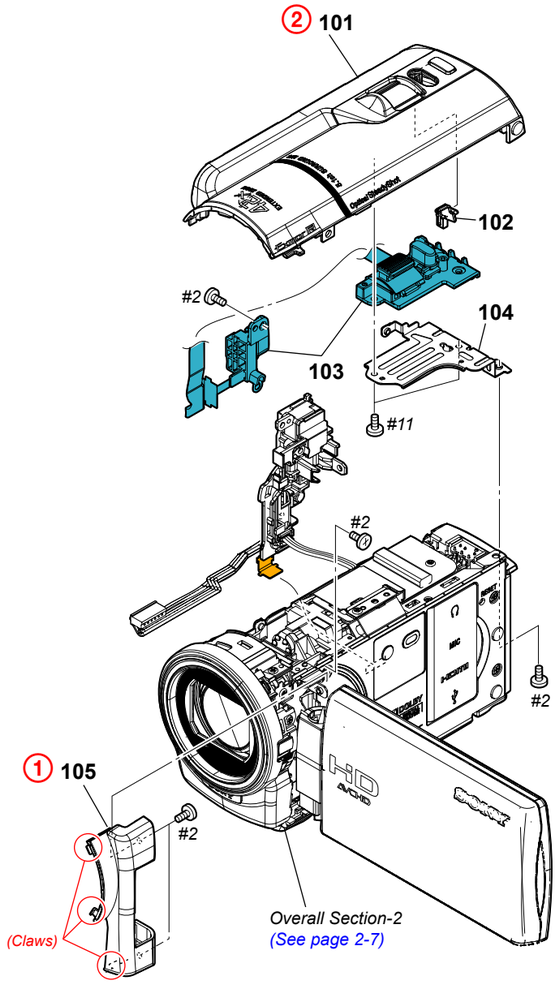


Note

Note: Refer to "Assembly-2: Installation Cautions of the USB Harness and the DC Jack Harness (Non HDD Model)".

2-1-3. CABINET (T) SECTION
(HDD Model)

Refer to page 2-6 about Non HDD Model.



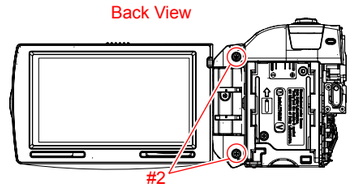
Refer to page 2-6 about Non HDD Model.

Ref. No.	Part No.	Description
101	A-1856-530-A	CABINET (TOP) ASSY (378) (XR260V/XR260VE)
101	A-1856-531-A	CABINET (TOP) ASSY (378) (XR260E)
102	4-271-692-01	PLATE, CHG LED LIGHT GUIDE
103	1-489-300-11	SWITCH BLOCK, CONTROL (PS38900)
104	4-271-694-01	SHEET METAL (389), TOP
105	4-271-960-11	COVER (R (381)), HINGE
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING

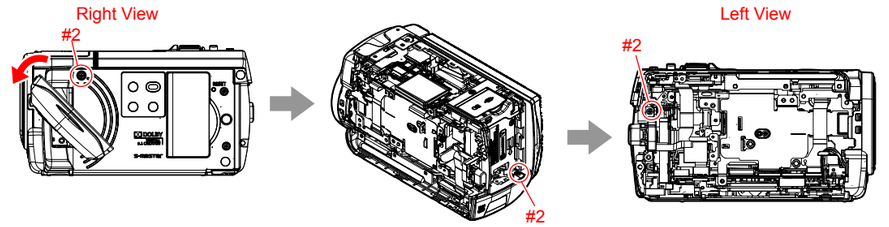
DISASSEMBLY

1. Remove to numerical order (① to ②) in the left figure.

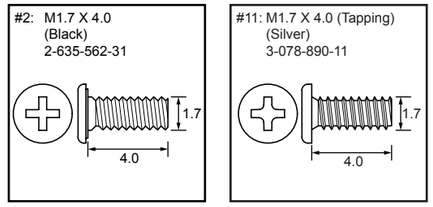
① #2 X 2



② #2 X 3

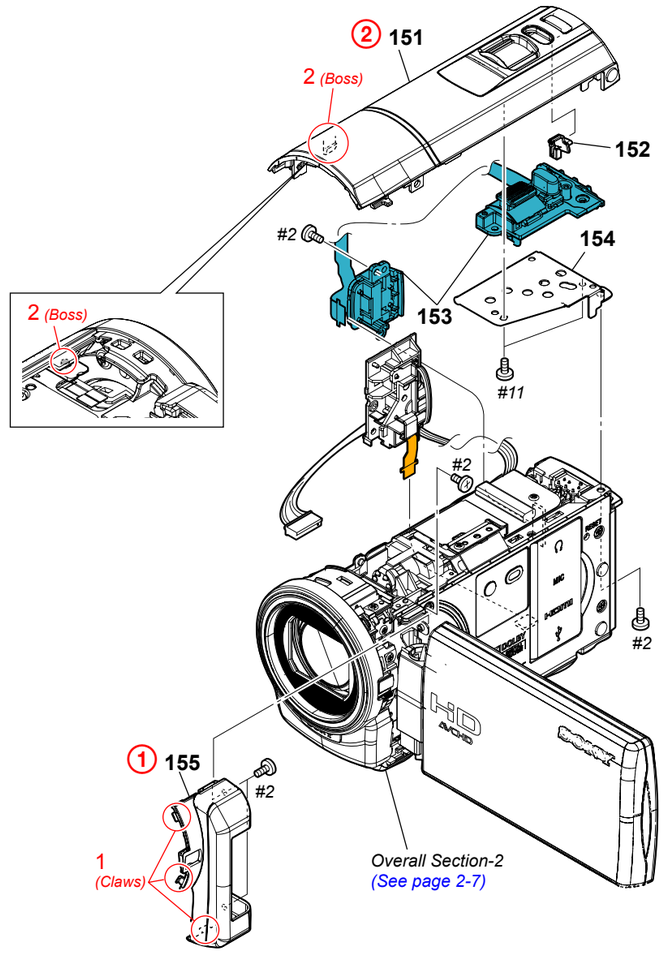


Screw



2-1-4. CABINET (T) SECTION
(Non HDD Model)

Refer to page 2-5 about HDD Model.



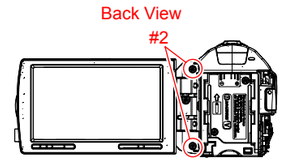
Refer to page 2-5 about HDD Model.

Ref. No.	Part No.	Description
151	A-1856-533-A	CABINET (TOP) ASSY (376B) (PJ260V/PJ260VE)
151	A-1856-731-A	CABINET (TOP) ASSY (376R) (PJ260E (RED))
151	A-1856-753-A	CABINET (TOP) ASSY (376B) (PJ260/PJ260E (BLACK))
152	4-271-692-01	PLATE, CHG LED LIGHT GUIDE
153	1-489-301-11	SWITCH BLOCK, CONTROL (PS38100)
154	4-271-693-01	SHEET METAL (381), TOP
155	A-1854-396-A	COVER (R (PJ BK)) ASSY, HINGE (PJ260/PJ260E (BLACK)/PJ260V/PJ260VE)
155	A-1856-741-A	COVER (R) ASSY (PJ R), HINGE (PJ260E (RED))
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING

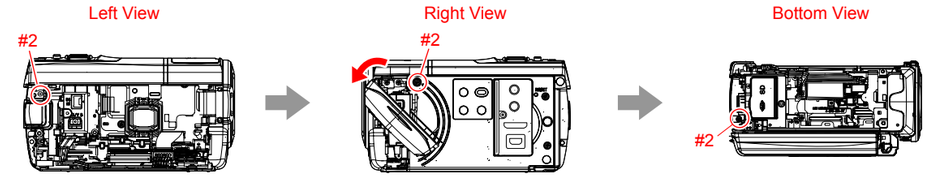
DISASSEMBLY

1. Remove to numerical order (① to ②) in the left figure.

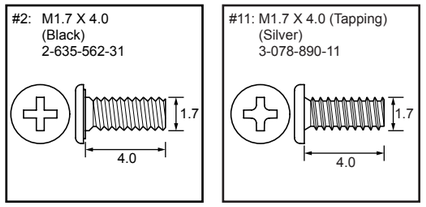
① #2 X 2



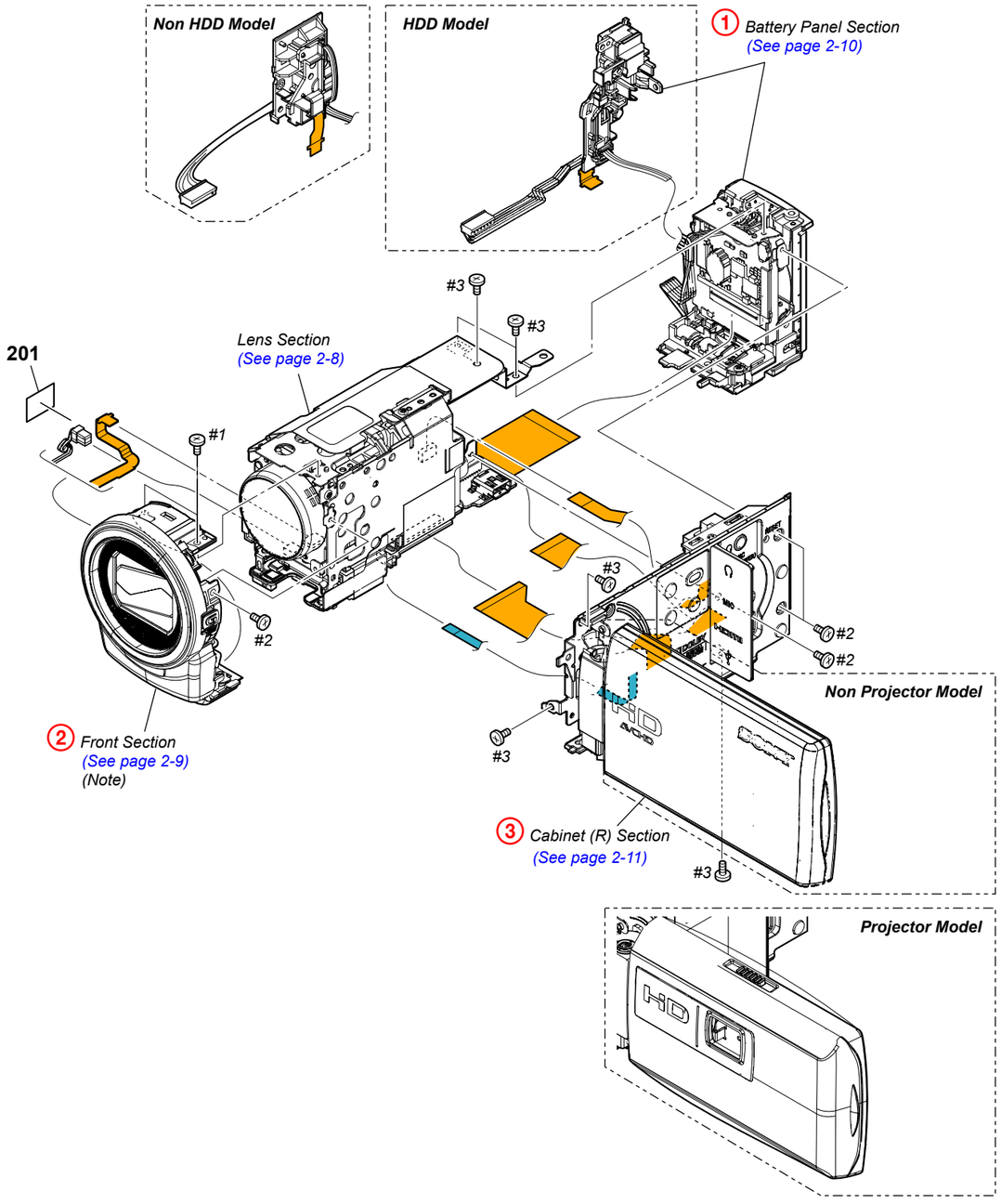
② Remove the Jack Holder → #2 X 3 → #2 X 1



Screw



2-1-5. OVERALL SECTION-2



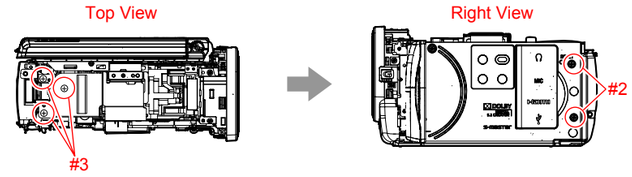
Ref. No.	Part No.	Description
201	4-274-987-01	TAPE (AS 1/2) (C)

Ref. No.	Part No.	Description
#1	2-635-562-11	SCREW (M1.7)
#2	2-635-562-31	SCREW (M1.7)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2

DISASSEMBLY

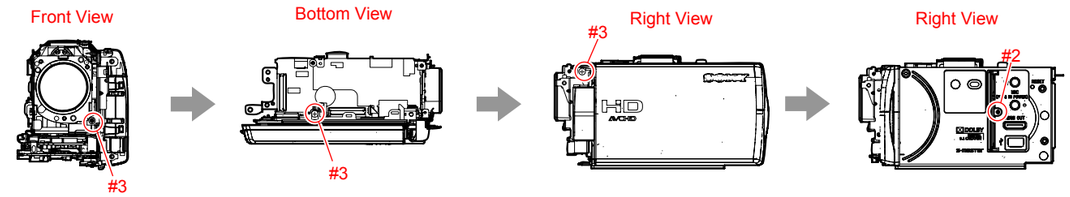
1. Remove to numerical order (① to ③) in the left figure.

① #3 X 3 → #2 X 2

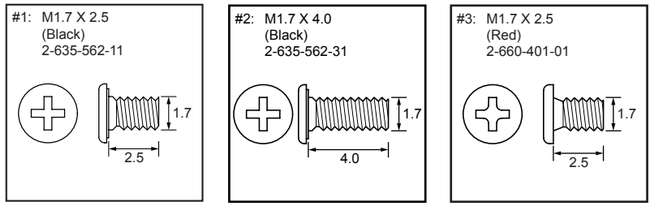


② #2 X 1 → #1 X 2

③ #3 X 3 → #2 X 1



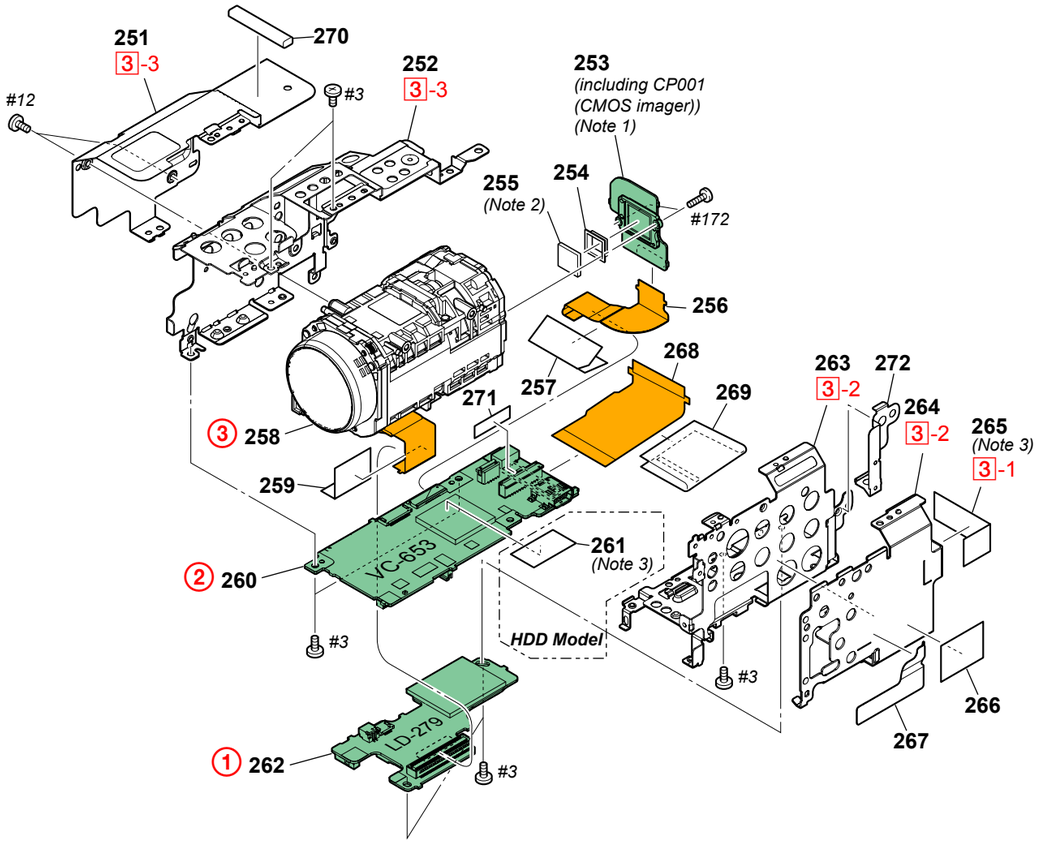
Screw



Note

Note: Refer to "Assembly-2: Installation Cautions of the Front Panel Section.".

2-1-6. LENS SECTION



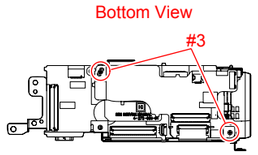
Ref. No.	Part No.	Description
251	4-271-726-01	HEAT SINK (L) (380)
252	4-271-725-01	FRAME (L) (380), LENS
253	A-1851-196-A	CM-123 BOARD, COMPLETE (including CP001 (CMOS Imager)) (Note 1)
254	4-268-482-01	RUBBER (1450), SEAL
255	1-856-163-21	OPTICAL FILTER BLOCK (Note 2)
256	1-884-929-21	FP-1488 FLEXIBLE BOARD
257	4-408-191-01	SHEET (CM (385)), SHIELD
258	A-1781-268-A	SERVICE, LSV-1450A
259	4-276-408-01	SHEET (FPC (LENS))
260	A-1861-124-A	VC-653 BOARD, COMPLETE (SERVICE) (HDD Model)
260	A-1861-125-A	VC-653 BOARD, COMPLETE (SERVICE) (Non HDD Model)
261	4-286-711-01	SHEET (AV), RADIATION (HDD Model) (Note 3)
262	A-1851-201-A	LD-279 BOARD, COMPLETE (XR260E/XR260V/XR260VE)
262	A-1851-202-A	LD-279 BOARD, COMPLETE (PJ260/PJ260E)
262	A-1862-433-A	LD-279 BOARD, COMPLETE (SERVICE) (PJ260V/PJ260VE)

Ref. No.	Part No.	Description
263	4-271-964-01	FRAME (R), LENS
264	4-271-965-01	HEAT SINK (R)
265	4-271-967-01	SHEET, CM RADIATION (Note 3)
266	4-271-968-01	SHEET (HEAT SINK R)
267	4-271-969-01	SHEET (FRAME R)
268	1-882-736-21	FP-1313 FLEXIBLE BOARD
269	4-272-050-01	SHEET (MM), SHIELD
270	4-279-796-01	GASKET (TOP)
271	4-282-564-01	SHEET (KZ)
272	4-279-575-01	PLATE (FRAME R), GROUND
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2
#12	3-080-204-21	SCREW, TAPPING, P2
#172	2-178-410-01	TITE (UB TITE) 1.4

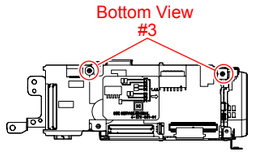
DISASSEMBLY

1. Remove to numerical order (① to ③) in the left figure.

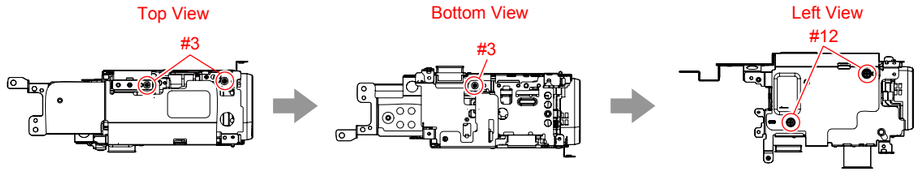
① #3 X 2



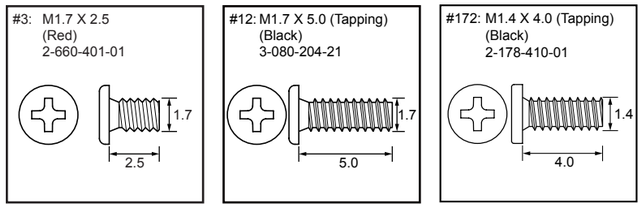
② #3 X 2



③ CM Radiation Sheet (3-1) → #3 X 3 → Heat Sink (R)/ Lens Frame (R) (3-2) → #12 X 2 → Heat Sink (L)(380)/ Lens Frame (L)(380) (3-3)



Screw



Note

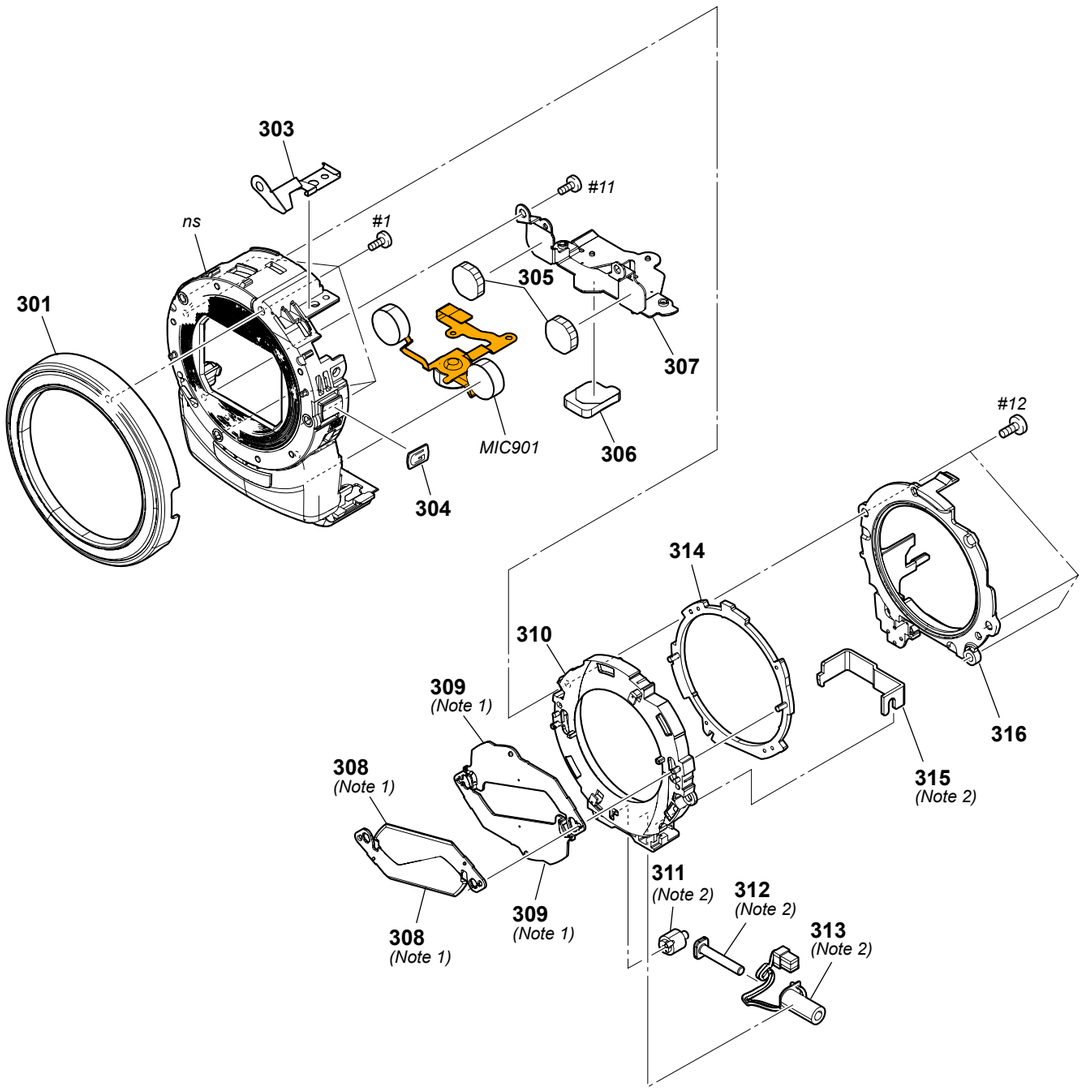
Note 1: Be sure to read "Precautions for Replacement of Imager" on page 6-1 of Level 3 when changing the imager.

Note 2: Refer to "Assembly-3: How to distinguish the side of Optical Filter Block facing to Lens Device".

Note 3: The CM Radiation Sheet and Radiation Sheet (AV) when peeling off once, so that it cannot be reused.

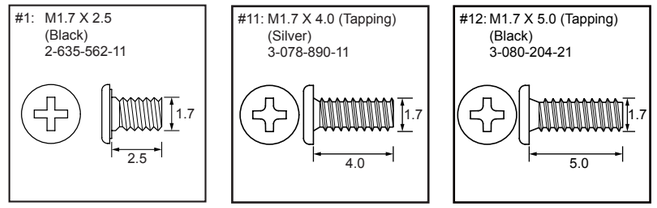
2-1-7. FRONT PANEL SECTION

ns : not supplied



Ref. No.	Part No.	Description
301	4-271-656-01	RING (380), LENS
303	4-271-657-01	PLATE (UPPER), LENS RING GROUND
304	4-271-948-01	EMBLEM (4.4), G
305	4-271-649-01	CUSHION, MICROPHONE
306	4-275-996-01	CUSHION (BM), MICROPHONE
307	4-271-643-01	RETAINER, MICROPHONE
308	4-269-133-01	COVER (A) (Note 1)
309	4-269-134-01	COVER (B) (Note 1)
310	4-269-131-01	BASE
311	1-471-579-11	MAGNET (Note 2)
312	4-269-135-01	YOKE, COIL (Note 2)
313	1-457-901-12	COIL (Note 2)
314	4-269-132-01	RING
315	4-269-227-01	YOKE (Note 2)
316	4-271-659-01	RETAINER (380), BARRIER
MIC901	1-542-856-11	MICROPHONE UNIT
#1	2-635-562-11	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

Screw



Note

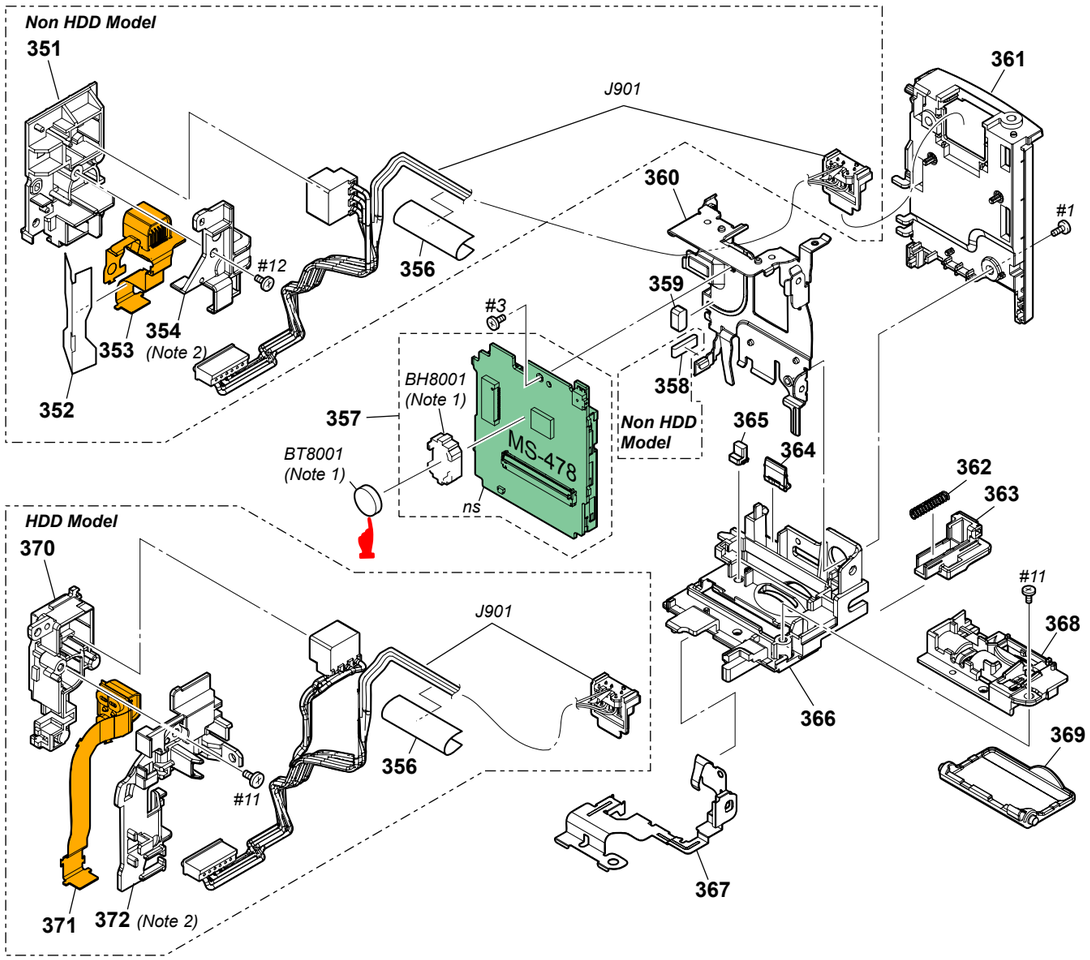
Note 1: Refer to "Assembly-8: The Method of attachment of Cover (A), Cover (B).".

Note 2: Refer to "Assembly-9: The Method of attachment of Barrier Motor.".

Ver. 1.2 2012.05
The changed portions from
Ver. 1.1 are shown in blue.

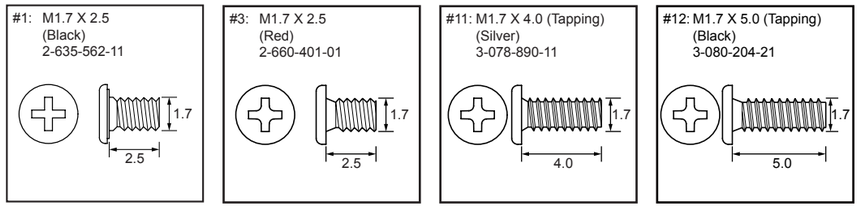
2-1-8. BATTERY PANEL SECTION

ns : not supplied



Ref. No.	Part No.	Description
351	4-271-957-01	HOLDER (O (381)), JACK (Non HDD Model)
352	4-277-792-01	SHEET (AVR (381)), SHIELD (Non HDD Model)
353	A-1810-661-A	FP-1323 FLEXIBLE BOARD, COMPLETE (Non HDD Model)
354	4-271-958-01	HOLDER (U (381)), JACK (Non HDD Model) (Note 2)
356	4-274-130-01	SHEET (BT), SHIELD
357	A-1852-720-A	MS-478 BOARD, COMPLETE (SERVICE)
358	4-265-547-01	GASKET UA (Non HDD Model)
359	4-271-962-01	GASKET (MS)
360	4-265-602-01	FRAME, BT
361	4-265-603-01	PANEL, BT
362	4-265-606-01	SPRING, BT LOCK
363	4-265-605-01	LOCK, BT
364	4-265-609-01	CLAW, BT RETAINER
365	4-265-610-01	TALLY, MS
366	4-265-604-01	SLOT, MS
367	4-265-611-01	PLATE (MS), GROUND
368	4-298-888-01	COVER (378), MS
369	4-265-607-02	LID, MS
370	4-271-950-01	HOLDER (O (389)), JACK (HDD Model) (Note 2)
371	A-1810-660-A	FP-1321 BOARD, COMPLETE (HDD Model)
372	4-271-951-01	HOLDER (U (389)), JACK (HDD Model)
⚠ BH8001	1-251-928-21	HOLDER, BATTERY (Note 1)
⚠ BT8001	1-756-135-31	BATTERY LITHIUM SECONDARY (Note 1)
⚠ J901	1-842-658-31	JACK, DC (Non HDD Model)
⚠ J901	1-842-658-41	JACK, DC (HDD Model)
#1	2-635-562-11	SCREW (M1.7)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

Screw



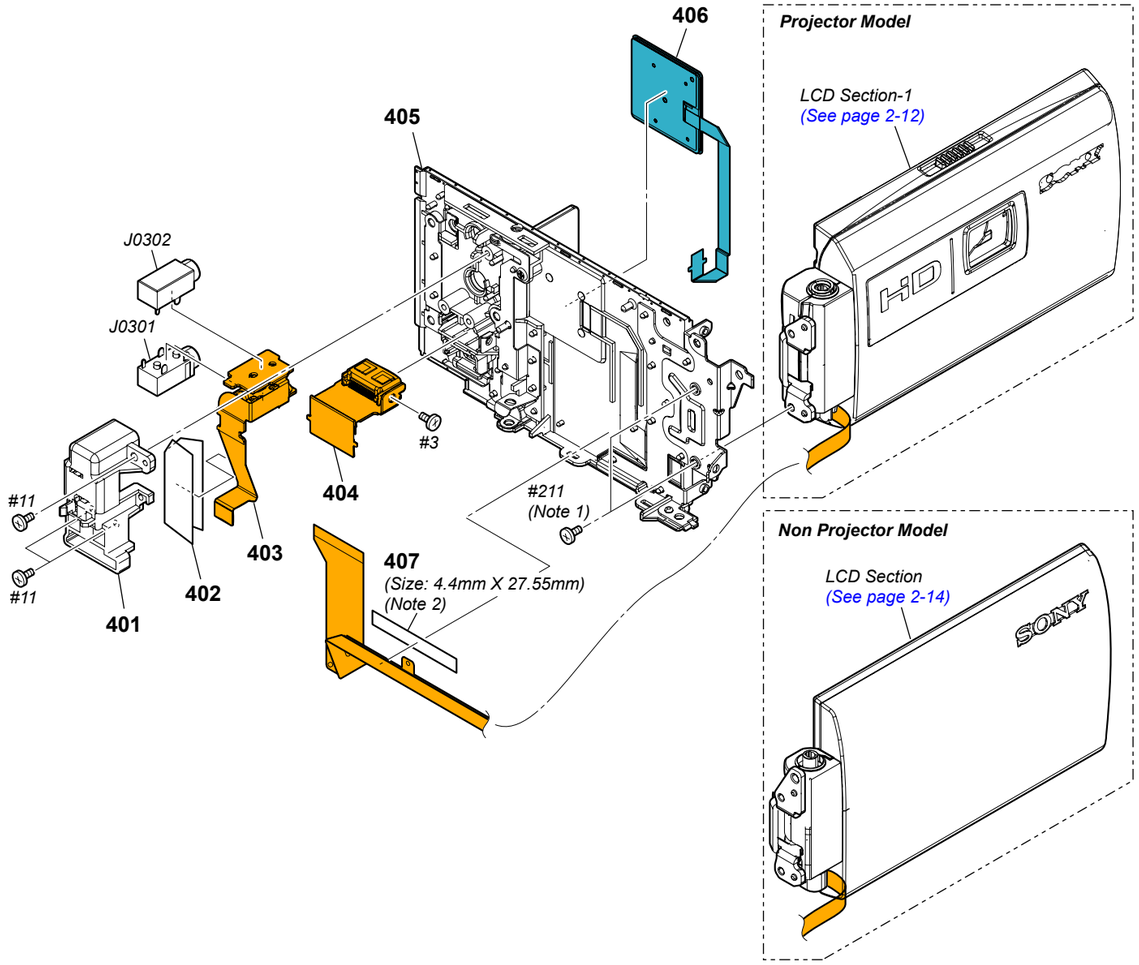
Note

Caution:
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

Note 1: Replace the battery holder (BH8001) together when replacing the lithium storage battery (BT8001) on the MS-478 board. (The battery holder removed once cannot be usedagain.)
When mounting these parts, mount new battery holder first and attach new lithium storage battery next.

Note 2: Refer to "Assembly-5: Installation Cautions of the DC Jack Harness".

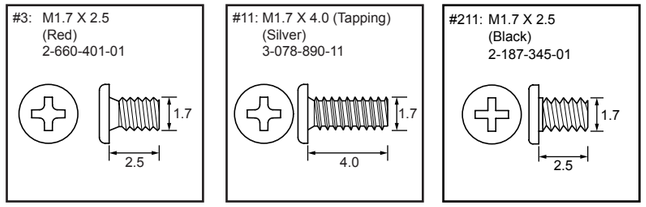
2-1-9. CABINET (R) SECTION



Ref. No.	Part No.	Description
401	4-272-281-01	HOLDER (381), HP_MIC
402	4-276-816-01	SHEET (HP), SHIELD
403	1-882-875-21	FP-1320 FLEXIBLE BOARD
404	A-1864-823-A	FP-1352 FLEXIBLE BOARD, COMPLETE
405	A-1854-646-A	CABINET (R) ASSY (378) (XR260E/XR260V/XR260VE)
405	A-1854-647-A	CABINET (R) ASSY (376) (PJ260/PJ260E/PJ260V/PJ260VE)
406	1-489-381-21	SWITCH BLOCK, CONTROL (SK37000) (HDD Model)
406	1-489-381-31	SWITCH BLOCK, CONTROL (SK38010) (Non HDD MODEL)
407	2-649-300-01	SHEET, ADHESIVE (Note2)

Ref. No.	Part No.	Description
J0301	1-691-737-42	JACK (SMALL TYPE) (HEAD PHONE)
J0302	1-569-950-41	JACK (SMALL TYPE) (EXTERNAL MICROPHONE)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2
#11	3-078-890-11	SCREW, TAPPING
#211	2-187-345-01	SCREW (M1.7), P2 (Note 1)

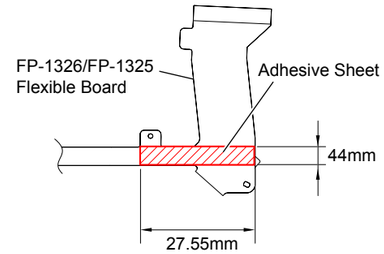
Screw



Note

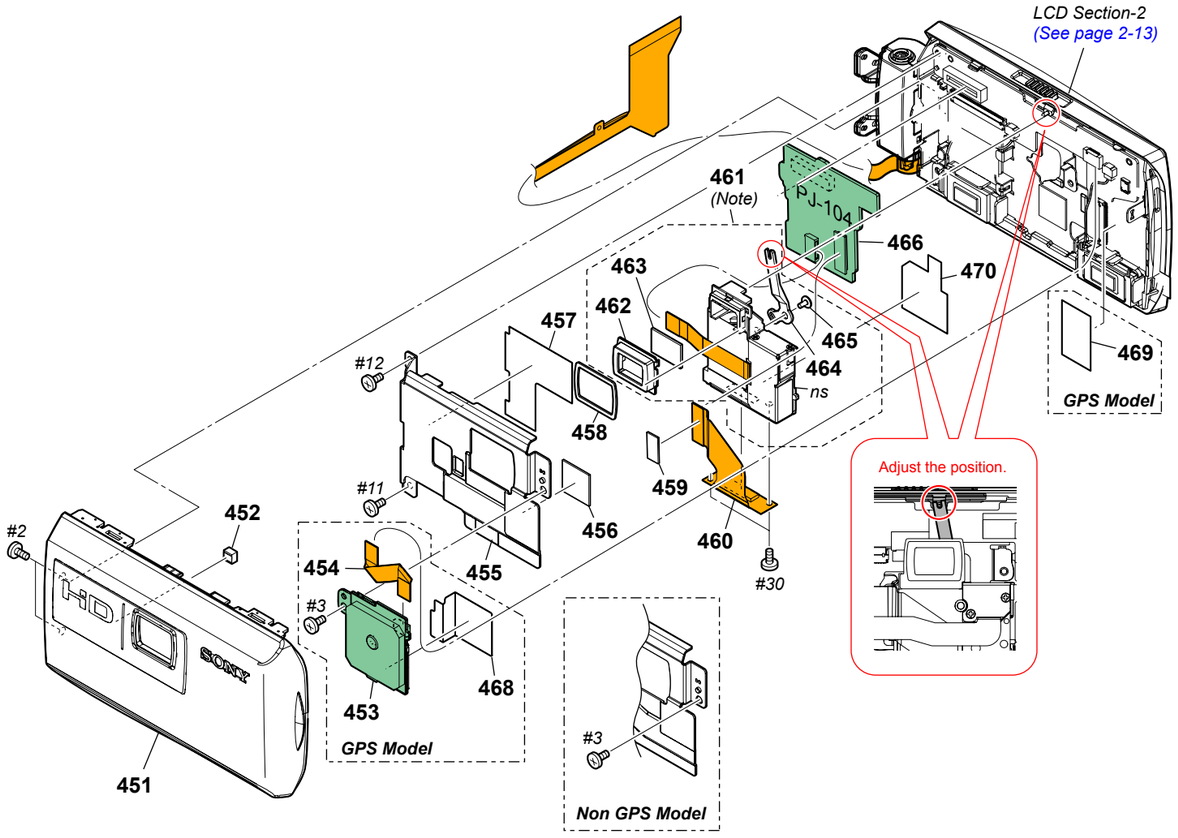
Note 1: This screw cannot be re-used. discard the screw removed once in servicing. In-stead, use a new screw.

Note 2: Cut SHEET, ADHESIVE (2-649-300-01) into the desired length and use it.



2-1-10. LCD SECTION-1
(Projector Model)

Refer to page 2-14 about Non Projector Model.

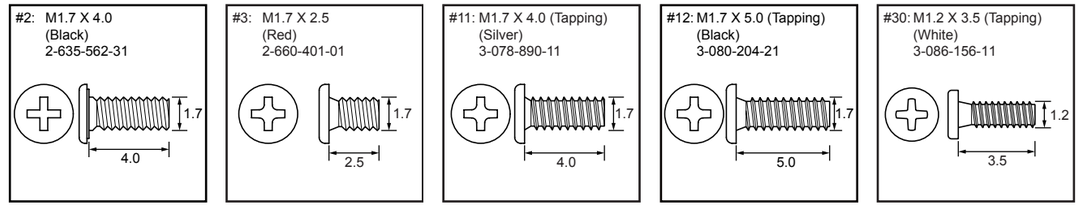


Refer to page 2-14 about Non Projector Model.

Ref. No.	Part No.	Description
451	A-1854-467-A	CABINET (C) ASSY (376B), P (BLACK)
451	A-1856-737-A	CABINET (C) ASSY (376R), P (RED)
452	4-272-357-01	GASKET (P (389))
453	A-1861-092-A	GP386 ASSY (GPS Model)
454	1-838-558-11	CABLE, FLEXIBLE FLAT (FFC-254) (GPS Model)
455	4-298-883-01	HEAT SINK (376), P
456	4-272-354-01	SHEET, P RADIATION
457	4-272-356-01	INSULATING SHEET (P (389))
458	4-272-358-01	CUSHION, P (GPS Model)
459	4-271-688-01	CUSHION (M) (GPS Model)
460	A-1810-716-A	FP-1319 FLEXIBLE BOARD, COMPLETE
461	A-1861-014-A	1580A COMPLETE ASSY (Note)
462	4-298-764-01	COVER GLASS FRAME (1580)
463	4-298-761-01	COVER GLASS (1580)
464	4-298-774-01	F LEVER (1580)

Ref. No.	Part No.	Description
465	4-414-148-01	+Z TAPPING B1.2
466	A-1853-345-A	PJ-104 BOARD, COMPLETE
468	4-415-054-01	SHEET (GPS (385)), CONDUCTIVE (GPS Model)
469	4-415-051-01	SHEET (385), LCD230 RADIATION (GPS Model)
470	4-415-052-01	SHEET (376), PJ RADIATION (PJ260/PJ260E/PJ260V/PJ260VE)
#2	2-635-562-31	SCREW (M1.7)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2
#30	3-086-156-11	SCREW B1.2

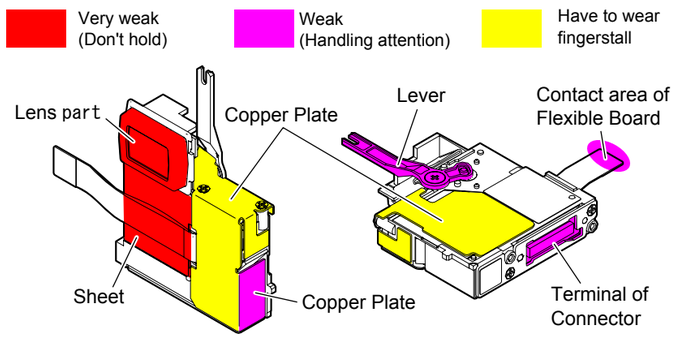
Screw



Note

Note :

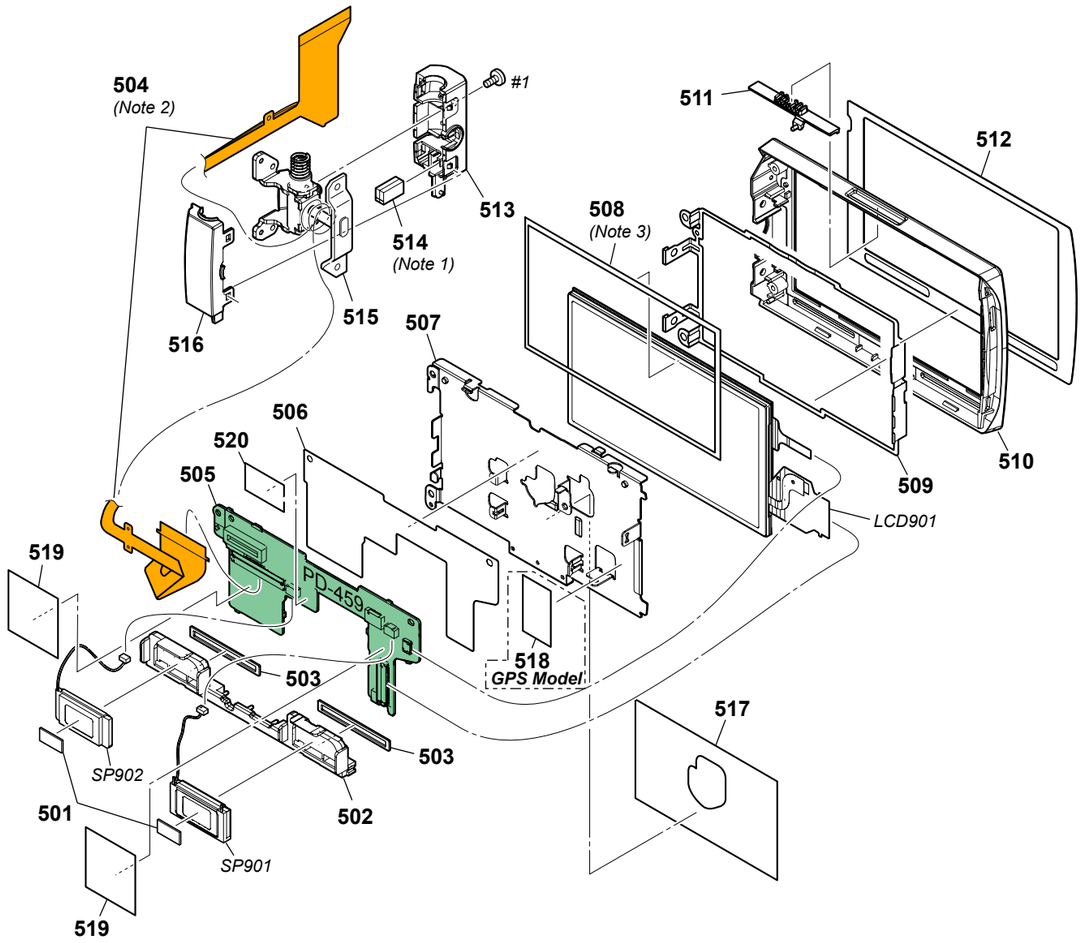
PRECAUTIONS WHEN HOLDING THE PROJECTOR UNIT



The projector unit (copper plate in particular) becomes hot after it is used.
When replacing a part of the projector unit, wait until it is cooled down.

2-1-11. LCD SECTION-2
(Projector Model)

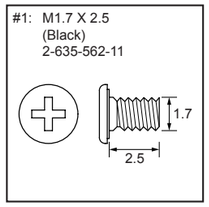
Refer to page 2-14 about Non Projector Model.



Refer to page 2-14 about Non Projector Model.

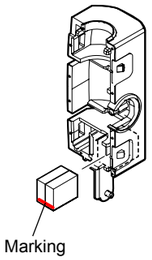
Ref. No.	Part No.	Description
501	4-271-688-01	CUSHION (M)
502	4-271-686-01	HOLDER, SP
503	4-271-689-01	CUSHION, SP HOLDER
504	1-882-881-11	FP-1326 FLEXIBLE BOARD (Note 2)
505	A-1852-429-A	PD-459 BOARD, COMPLETE (PJ260V/PJ260VE)
505	A-1852-430-A	PD-459 BOARD, COMPLETE (PJ260/PJ260E)
506	4-271-687-01	INSULATING SHEET (PD (381))
507	4-272-360-01	RETAINER (389), LCD
508	4-265-598-01	CUSHION, LCD (Note 3)
509	4-298-884-01	PLATE (P (376)), GROUND
510	4-270-132-21	CABINET (M (389)), P
511	4-272-353-01	KNOB, FOCUS
512	4-272-355-01	SHEET (389), PANEL
513	4-272-352-01	COVER (U (389)), HINGE
514	1-471-583-21	MAGNET (Note 1)
515	X-2582-799-1	HINGE Y (P) ASSY, T STYLE
516	4-272-351-01	COVER (O (389)), HINGE (BLACK)
516	4-272-351-41	COVER (O (389)), HINGE (RED)
517	4-415-053-01	SHEET (386), PJ RADIATION
518	4-415-050-01	SHEET (365), LCD921 RADIATION (GPS Model)
519	4-281-443-01	TAPE (GP)
520	4-274-987-01	TAPE (AS 1/2) (C)
LCD901	A-1854-122-A	LCD BLOCK ASSY (SZ814C)
SP901	1-858-528-31	SPEAKER (2-1CM)
SP902	1-858-528-31	SPEAKER (2-1CM)
#1	2-635-562-11	SCREW (M1.7)

Screw



Note

Note 1: Put the marking side together on the position of figure when you install the magnet.

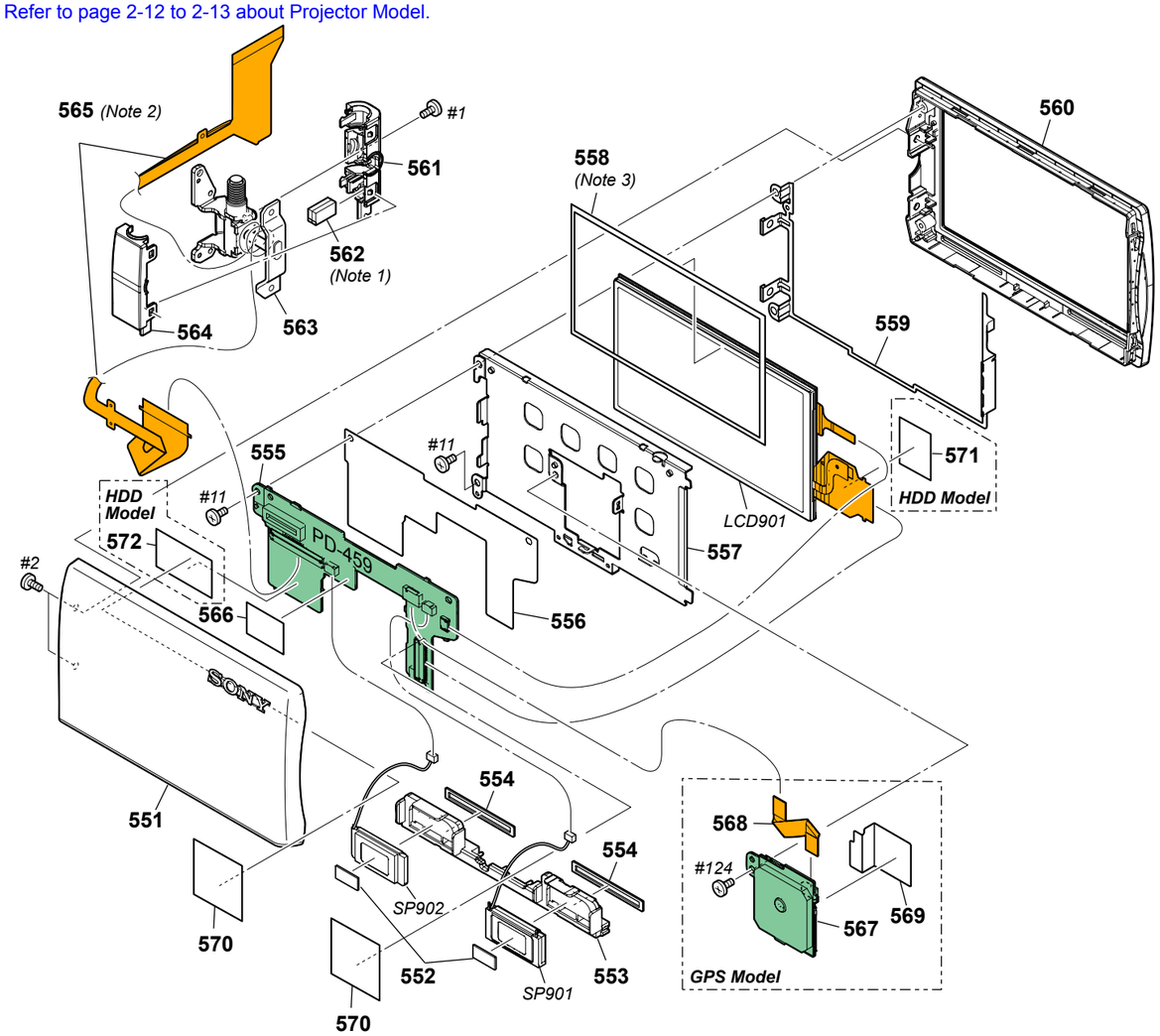


Note 2: Refer to "Assembly-6: The Method of attachment of FP-1325/FP-1326 Flexible Board.".

Note 3: Refer to "Assembly-7: Installation Cautions of LCD Cushion.".

2-1-12. LCD SECTION
(Non Projector Model)

Refer to page 2-12 to 2-13 about Projector Model.

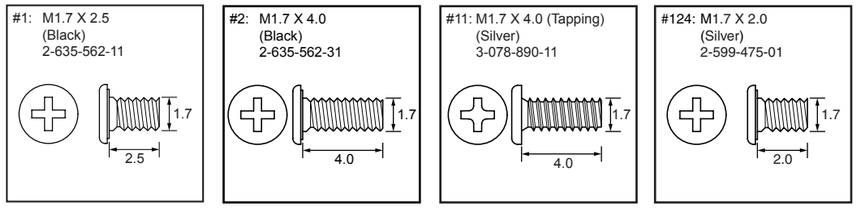


Refer to page 2-12 to 2-13 about Projector Model.

Ref. No.	Part No.	Description
551	A-1854-445-A	CABINET (C) ASSY (378), P
552	4-271-688-01	CUSHION (M)
553	4-271-686-01	HOLDER, SP
554	4-271-689-01	CUSHION, SP HOLDER
555	A-1852-431-A	PD-459 BOARD, COMPLETE (XR260V/XR260VE)
555	A-1852-432-A	PD-459 BOARD, COMPLETE (XR260E)
556	4-271-687-01	INSULATING SHEET (PD (381))
557	4-271-685-01	RETAINER (381), LCD
558	4-265-598-01	CUSHION, LCD (Note 3)
559	4-271-684-01	PLATE (P (381)), GROUND
560	4-271-683-01	CABINET (M (381)), P
561	4-271-691-01	COVER (U (381)), HINGE
562	1-471-583-21	MAGNET (Note 1)
563	X-2549-615-1	HINGE Y (A) ASSY, T STYLE
564	4-271-690-11	COVER (O (381)), HINGE

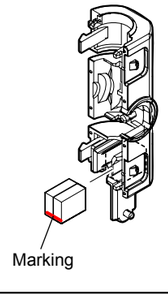
Ref. No.	Part No.	Description
565	1-882-880-11	FP-1325 FLEXIBLE BOARD (Note 2)
566	4-274-987-01	TAPE (AS 1/2) (C)
567	A-1861-092-A	GP386 ASSY (GPS Model)
568	1-838-558-11	CABLE, FLEXIBLE FLAT (FFC-254) (GPS Model)
569	4-415-054-01	SHEET (GPS (385)), CONDUCTIVE (GPS Model)
570	4-281-443-01	TAPE (GP)
571	4-415-051-01	SHEET (385), LCD230 RADIATION
572	4-415-049-01	SHEET (378), PD RADIATION (HDD Model)
LCD901	A-1854-122-A	LCD BLOCK ASSY (SZ814C)
SP901	1-858-528-31	SPEAKER (2-1CM)
SP902	1-858-528-31	SPEAKER (2-1CM)
#1	2-635-562-11	SCREW (M1.7)
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#124	2-599-475-01	SCREW (M1.7)

Screw



Note

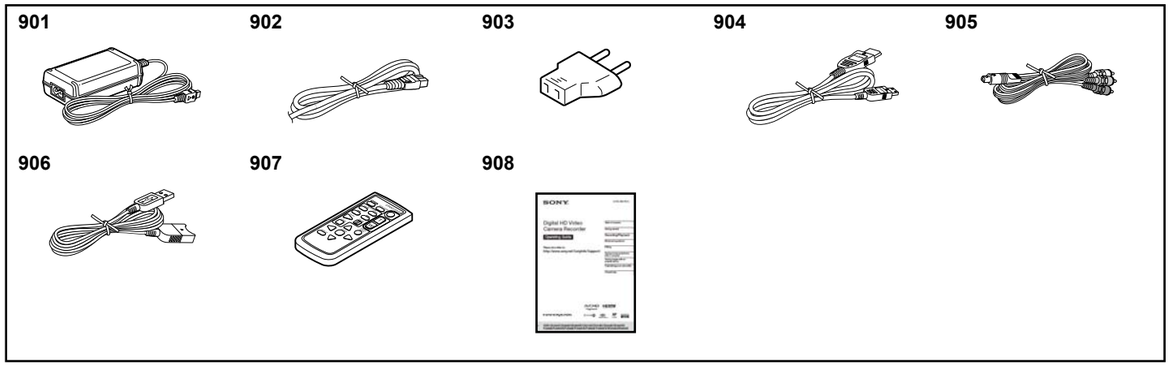
Note 1: Put the marking side together on the position of figure when you install the magnet.



Note 2: Refer to "Assembly-6: The Method of attachment of FP-1325/FP-1326 Flexible Board.".

Note 3: Refer to "Assembly-7: Installation Cautions of LCD Cushion.".

ACCESSORIES



Ref. No.	Part No.	Description
⚠901	1-487-150-71	AC Adaptor (AC-L200C/L200D) * Compatible in L200C and L200D
⚠902	1-832-121-31	Power cord (mains lead) (CH)
⚠902	1-832-169-41	Power cord (mains lead) (UK, E (Saudi), HK)
⚠902	1-834-482-31	Power cord (mains lead) (AEP, NE, E: PAL)
⚠902	1-834-852-11	Power cord (mains lead) (E: NTSC)
⚠902	1-835-983-11	Power cord (mains lead) (AUS)
⚠902	1-836-251-11	Power cord (mains lead) (JE)
⚠902	1-837-428-51	Power cord (mains lead) (KR)
⚠902	1-838-955-11	Power cord (mains lead) (US, CND)
⚠903	1-569-007-12	Conversion (2P) Adaptor (E: NTSC, JE)
904	1-839-080-21	HDMI cable
905	1-838-205-11	A/V connecting cable
906	1-838-714-31	USB connection support cable
907	1-479-275-51	Wireless Remote Commander (Projector Model)
* 908	4-416-298-11	Operating Guide (ENGLISH, SPANISH)
* 908	4-416-298-21	Operating Guide (ENGLISH, FRENCH)
* 908	4-416-298-31	Operating Guide (PORTUGUESE)
* 908	4-416-298-41	Operating Guide (TRADITIONAL CHINESE)
908	4-416-298-51	Operating Guide (KOREAN)
908	4-416-299-11	Operating Guide (ENGLISH)
* 908	4-416-299-21	Operating Guide (FRENCH, GERMAN, DUTCH, ITALIAN)
* 908	4-416-299-31	Operating Guide (SPANISH, PORTUGUESE, GREEK, TURKISH)
* 908	4-416-299-41	Operating Guide (POLISH, CZECH, HUNGARIAN, SLOVAK)
* 908	4-416-299-51	Operating Guide (SWEDISH, DANISH, FINNISH, ROMANIAN)
* 908	4-416-299-61	Operating Guide (RUSSIAN, UKRAINIAN) (NE)
* 908	4-416-299-71	Operating Guide (TRADITIONAL CHINESE)
908	4-416-299-81	Operating Guide (SIMPLIFIED CHINESE) (E (PAL), JE)
* 908	4-416-299-91	Operating Guide (ARABIC, PERSIAN)
* 908	4-416-300-11	Operating Guide (MALAY)
* 908	4-416-300-21	Operating Guide (INDONESIAN)
* 908	4-416-300-31	Operating Guide (THAI)
908	4-416-301-11	Operating Guide (SIMPLIFIED CHINESE) (CH)
* 908	4-417-077-11	Operating Guide (RUSSIAN, UKRAINIAN) (JE)

Note : This unit has no bundled CD-ROM.
Contents included in the CD-ROM will be supplied to customers as follows.

- User Guide (HTML)
  - You can access to the URL of support site described in the Instruction Manual.
- Application Software
  - By connecting this unit and Windows PC with the USB cable, the application software [PlayMemories Home Lite version] can be installed on the PC from the unit.
  - In case of using the extended version, install “Expanded Feature” via Internet.
  - If a customer requests the printed matter, consult with each Head Quarters.

This item is supplied with the unit as an accessory, but is not prepared as a service part.

931

Ref. No.	Part No.	Description
⚠931	(Not supplied)	Rechargeable battery pack (NP-FV50)

This Item is not supplied with the unit as an accessory, but it is prepared as a service part.
When the customer requests printed one, ask Head Quarter.

941

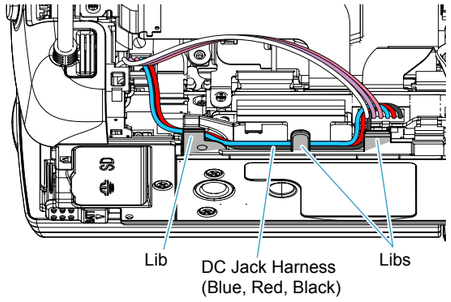
Ref. No.	Part No.	Description
PJ260/PJ260V/XR260V		
* 941	4-416-293-11	User Guide (ENGLISH)
* 941	4-416-293-21	User Guide (FRENCH)
* 941	4-416-293-31	User Guide (SPANISH)
* 941	4-416-293-41	User Guide (PORTUGUESE)
* 941	4-416-293-51	User Guide (TRADITIONAL CHINESE)
* 941	4-416-293-61	User Guide (KOREAN)

Ref. No.	Part No.	Description
PJ260E/PJ260VE/XR260E/XR260VE		
* 941	4-416-294-11	User Guide (ENGLISH)
* 941	4-416-294-21	User Guide (FRENCH)
* 941	4-416-294-31	User Guide (GERMAN)
* 941	4-416-294-41	User Guide (ITALIAN)
* 941	4-416-294-51	User Guide (DUTCH)
* 941	4-416-294-61	User Guide (SPANISH)
* 941	4-416-294-71	User Guide (PORTUGUESE)
* 941	4-416-294-81	User Guide (TURKISH)
* 941	4-416-294-91	User Guide (GREEK)
* 941	4-416-295-11	User Guide (CZECH)
* 941	4-416-295-21	User Guide (HUNGARIAN)
* 941	4-416-295-31	User Guide (SLOVAK)
* 941	4-416-295-41	User Guide (POLISH)
* 941	4-416-295-51	User Guide (SWEDISH)
* 941	4-416-295-61	User Guide (DANISH)
* 941	4-416-295-71	User Guide (FINNISH)
* 941	4-416-295-81	User Guide (ROMANIAN)
* 941	4-416-295-91	User Guide (RUSSIAN)
* 941	4-416-296-11	User Guide (UKRAINIAN)
* 941	4-416-296-21	User Guide (TRADITIONAL CHINESE)
* 941	4-416-296-31	User Guide (SIMPLIFIED CHINESE)
* 941	4-416-296-41	User Guide (ARABIC)
* 941	4-416-296-51	User Guide (PERSIAN)
* 941	4-416-296-61	User Guide (MALAY)
* 941	4-416-296-71	User Guide (INDONESIAN)
* 941	4-416-296-81	User Guide (THAI)

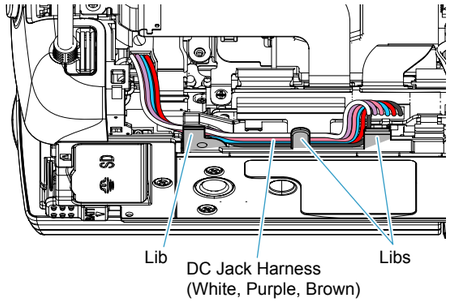
3. ASSEMBLY

Assembly-1: Installation Cautions of the DC Jack Harness. (HDD Model)

① Pass the DC Jack harness (Black, Blue, Red) in the five libs.

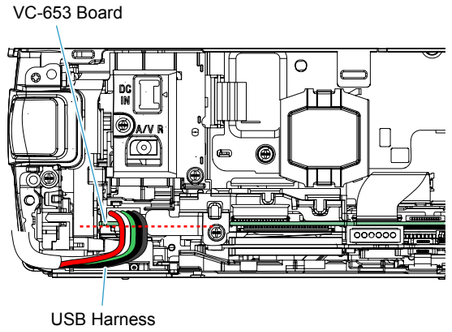


② Pass the DC Jack harness (White, Purple, Brown) in the five libs.

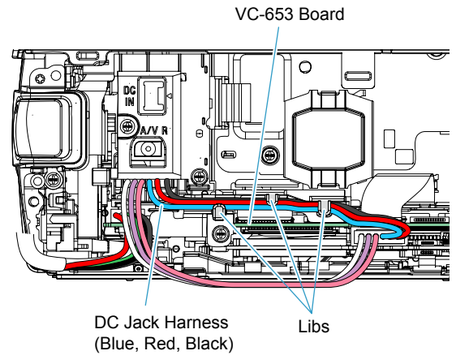


Assembly-2: Installation Cautions of the DC Jack Harness. (Non HDD Model)

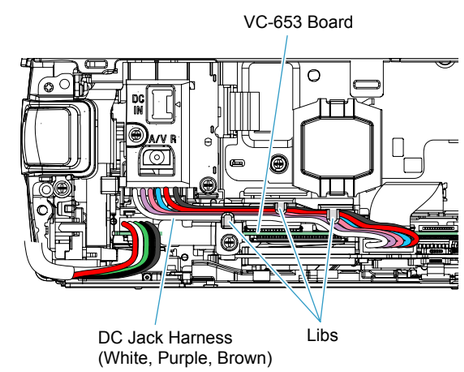
Don't crossover the USB harness and the VC-653 board.



① Pass the DC Jack harness (White, Purple, Brown) in the five libs.

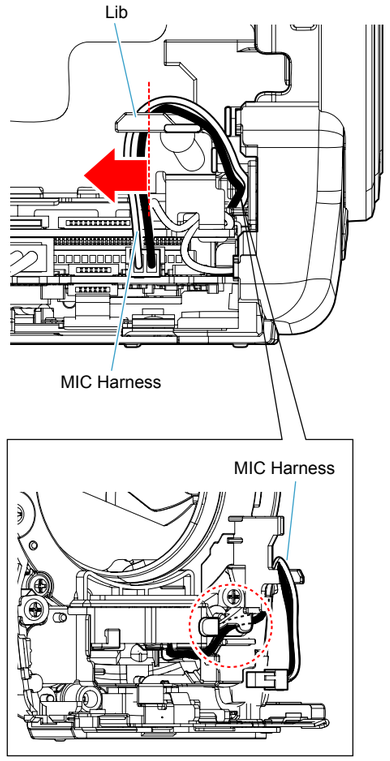


② Pass the DC Jack harness (Black, Blue, Red) in the five libs.



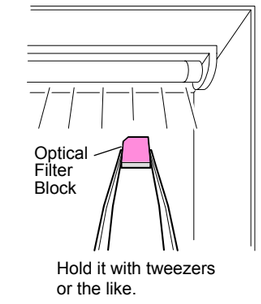
Assembly-3: Installation Cautions of the Front Panel Section.

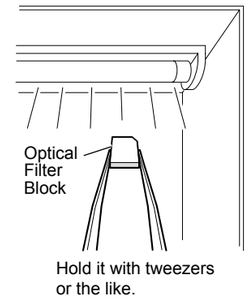
Pass the mic harness the lib.
(Pull the mic harness in the direction of the arrow.)



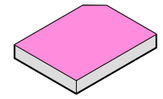
Assembly-4: How to distinguish the side of Optical Filter Block facing to Lens Device.

This IR coated optical filter block has side A and side B.
When the optical filter block is exposed to fluorescent light at a place where environmental light is blocked, side A glow red and side B glow white at certain angles.
Install the optical filter block with side B facing toward the lens.





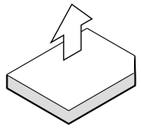
[IR Cut Coated Side A]



Glow red at certain angles.

[IR Cut Coated Side B]

Lens Device side

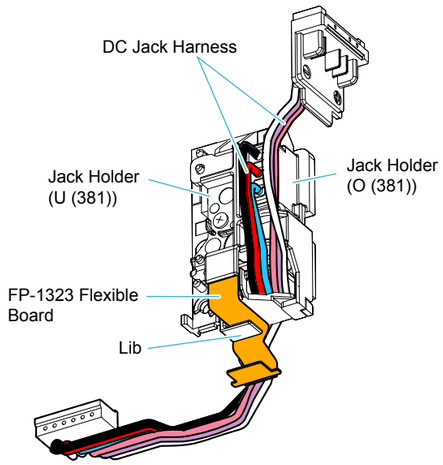


Glow white at certain angles.

Assembly-5: Installation Cautions of the DC Jack Harness.

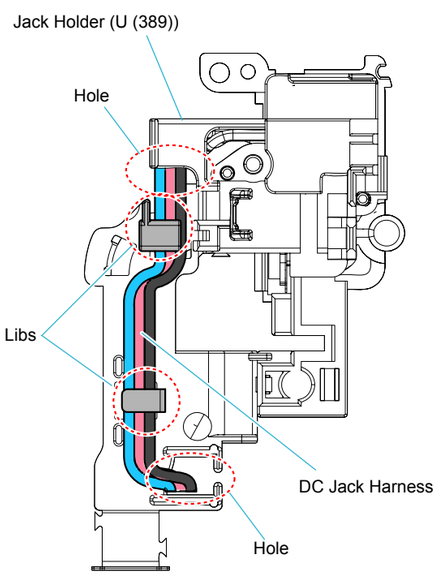
HDD Model

Route the DC jack harness and the FP-1323 flexible board.



Non HDD Model

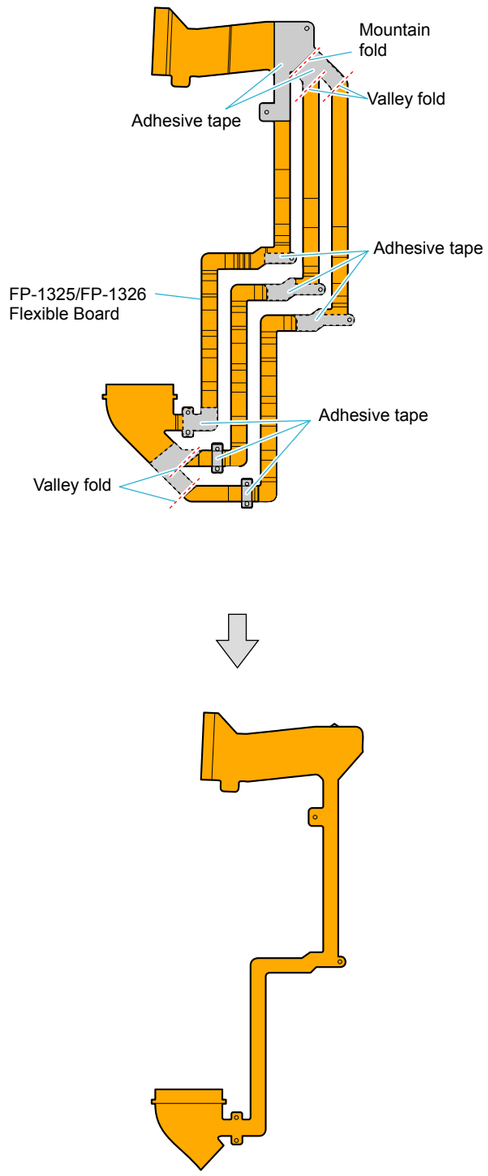
Route the DC jack harness.



Assembly-6: The Method of attachment of FP-1325/FP-1326 Flexible Board.

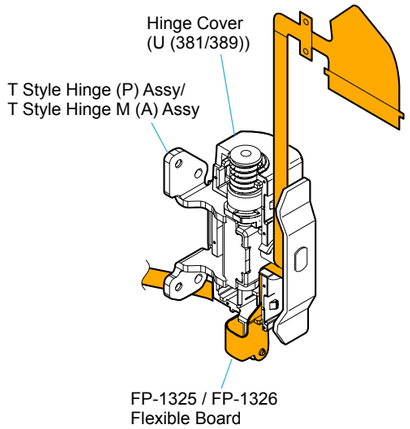
① Fold dotted line parts of the FP-1325/FP1326 flexible board as shown in figure.

As for the figure below, the FP-1325 flexible board and the shape of the FP-1326 flexible board are different.

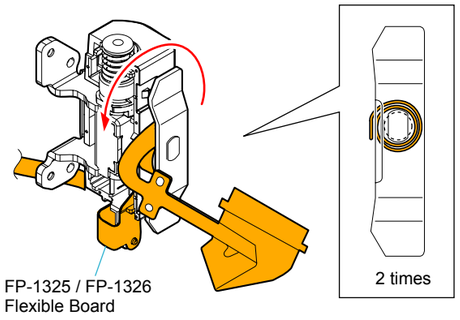


② Insert the FP-1325 / FP-1326 Flexible Board to the T Style Hinge (P) Assy / T Style Hinge M (A) Assy and the Hinge Cover (U (381/389)) as shown in figure.

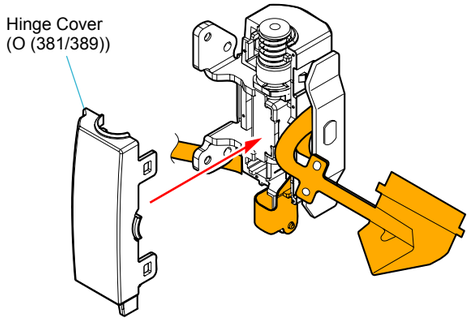
As for the figure below, the T Style Hinge (P) Assy / Hinge Cover (U (381)) / Hinge Cover (U (389)) and the shape of the T Style Hinge M (A) Assy / Hinge Cover (U (389)) / Hinge Cover (U (389)) are slightly different.



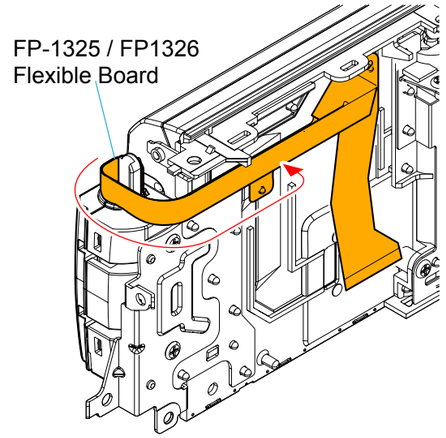
③ Roll the FP-1325 / FP-1326 flexible board 2 times in the hinge assy as shown in figure.



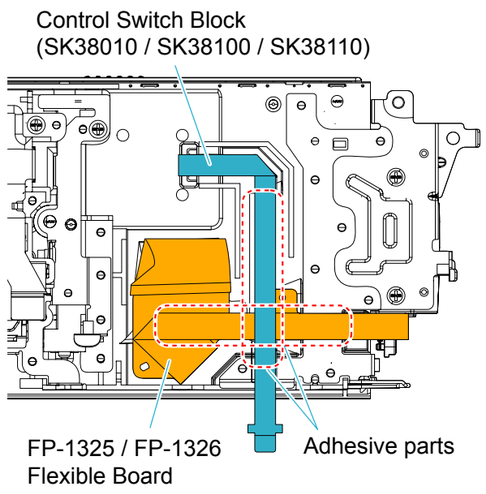
④ Insert the FP-1325 / FP-1326 Flexible Board to the Hinge Cover (O (381/389)) as shown in figure.



⑤ Attach the FP-1308 flexible board to the Cabinet (R) assy as shown in figure.

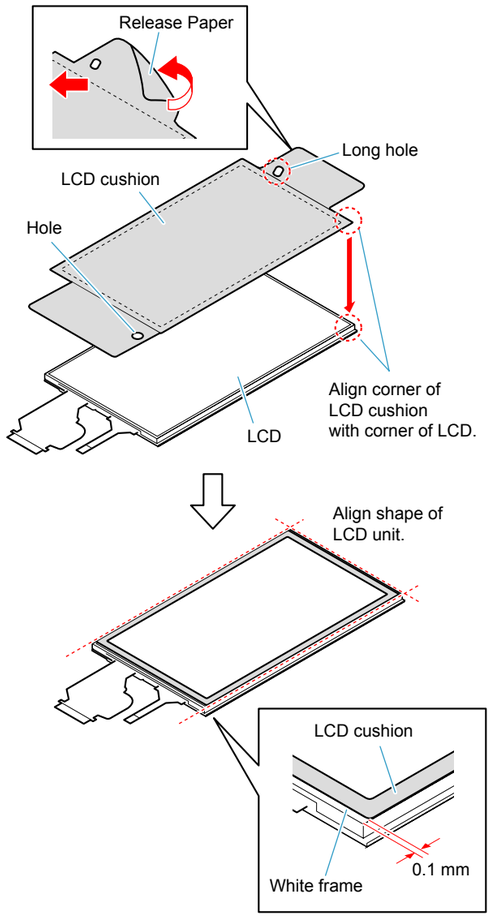


⑥ Attach the FP-1325 / FP1326 flexible board and the Control Switch Block (SK38010 / SK38100 / SK38110) as shown in figure.



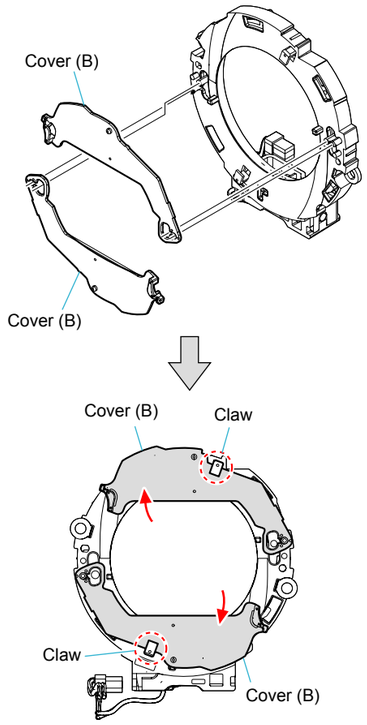
Assembly-7: Installation Cautions of LCD Cushion.

Apply LCD cushion.
And have the Tab of the Release Paper and peel it off.

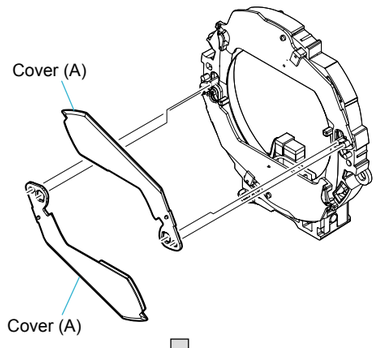


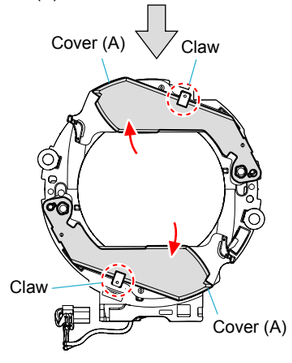
Assembly-8: The Method of attachment of Cover (A), Cover (B).

① Install the two covers (B) and slide its.



② Install the two covers (A) and slide its.





Assembly-9: The Method of attachment of Barrier Motor.

① Install the magnet, coil yoke, coil, and the yoke.